



Aberdeen Proving Ground, Maryland

Revised Final
Phase I RCRA Facility Investigation Report

Tooele Army Depot-North Area Suspected Releases SWMUs DAAA15-90-D-0011

Volume II
Appendices A-J

December 1993

Appared for public selected

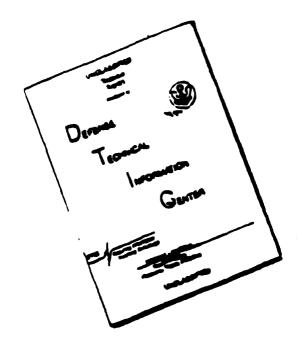
Obstitution Unitedled



MORTGONIENY VICESON

DITC QUALITY INSPECTED 1

DISCLAIMER NOTICE



THIS DOCUMENT IS BEST QUALITY AVAILABLE. THE COPY FURNISHED TO DTIC CONTAINED A SIGNIFICANT NUMBER OF PAGES WHICH DO NOT REPRODUCE LEGIBLY.

U.S. Army Environmental
Center

Aberdeen Proving Ground, Maryland

Final Phase I RCRA Facility Investigation Report

Tooele Army Depot-North Area Suspected Releases SWMUs DAAA15-90-D-0011

Volume II Appendices A-J

August 1993



MONTGOMERY YMTSON

ST #A, AUTH: USAEC/SFIM-AEC-RMI (MS. BARRY -DSN 584-1659) PER TELECON 14 JULY 94 CB

Acris	esion 702
MIIS	GRAAI TAB
Unan	nounced []
De O	and here
Dist:	lability Codes
Dist	Avail and/or Special
4-1	
	*

Appendix A

94-22801



AFFERENCE

PHARE I RCRA FACILITIES INVESTIGATION FIELD PROGRAM

A1 INTRODUCTION

A.1.0.1. This appendix presents a summary of the field activities conducted by shift in support of the Phase I RFI at TEAD-N during the summer of 1992. Included are descriptions of the investigation scope, organization of project personnel, sample handling, sample shipping, and a summary of the field work performed at each individual SWMU. In addition, facility-wide investigation activities are discussed. Also included in this appendix is a description of the health and safety program under which all field activities were conducted, and descriptions of sample collection, handling, and shipping procedures.

A.1.0.2. The Phase I RFI field activities were conducted in accordance with the project work plans prepared for this investigation. These include the Data Collection Quality Assurance Plan (JMM, 1992a), the Data Management Plan (JMM, 1993b), the Bealth and Safety Plan (JMM, 1990c). And the Project Management Plan (JMM, 1996d). Each of the plans were reviewed and approved by the State of Utah Department of Environmental Quality (UDEQ) and the USEPA.

A.3 SCOPE OF THE PHASE I RFI FIELD PROGRAM

A.2.0.1. Field investigations were conducted at 17 SWMUs suspected of releasing hazardous waste or hazardous waste constituents to the environment. At each individual SWMU a sampling program was developed, depending on site specific conditions and types of potential contaminants present. A number of investigative techniques were implemented to determine if hazardous waste or hazardous constituents have been released to the environment from the 17 SWMUs. All sample locations and a summary of analytical results are presented in the figures and tables included in section 5.0 of the Phase I RPI Report.

A.S.O.S. The scope of work of the 1992 Phase I RFI at TEAD-N consisted of the following:

- · Obtaining base access for all project personnel and field vehicles
- Establishing on-base support facilities, including two office traffers, rentructs
 facilities, and on-site communications

- Obtaining necessary excavation permits, utility clearances and discharge permits to conduct field activities
- Establishing a non-treated clean water source to be used for all field operations, including decontamination precedures
- Conducting a field survey to establish reference locations at each SWMU where sampling activities were conducted
- Conducting a ground conductivity and magnetic survey at SWMUs 1b and 1c to delineate previously-used debris/burn trench locations
- Excavating, sampling, and logging 121 test pits at SWMUs 1, 1a, 1b, 1c, and 1d
 (the OB/OD Area)
- Conducting extensive surface and shallow soil sampling at many of the SWMUs and Box Elder Wash
- Obtaining surface water samples at SWMUs 14, 45, and 47
- Obtaining two rounds of groundwater samples from 5 menitering wells near SWMU 14
- Taking sediment samples at SWMUs 14, 45, and 47
- Taking one spent activated carbon sample at SWMU 38, under Level C health and safety protection
- Drilling and sampling a 25-feet seil boring at SWMU 45, and drilling and sampling eight 100-feet seil borings at SWMUs 1, 1a, 1b, 1c, and 1d
- Hand augering and sampling 5 shallow soil berings to a depth of 5 feet to provide analytical background values for the five soil types identified at TEAD-N
- Drilling and sampling one 100' boring near the OB/OD Area to evaluate background seil conditions at depth

- . Plotting all sampling locations in relation to the field survey references
- Conducting two rounds of groundwater elevation measurements in 48 selected wells and piezometers located across TEAD-N
- Conducting all applicable on-site health and safety monitoring of project personnel
- Shipping all samples to the Environmental Science and Engineering (ESE)
 analytical laboratory in Gainesville, Florida, for analysis; all samples were
 handled in such a way as to maintain sample integrity, viability, and legal
 custody requirements
- · Maintaining all required documentation

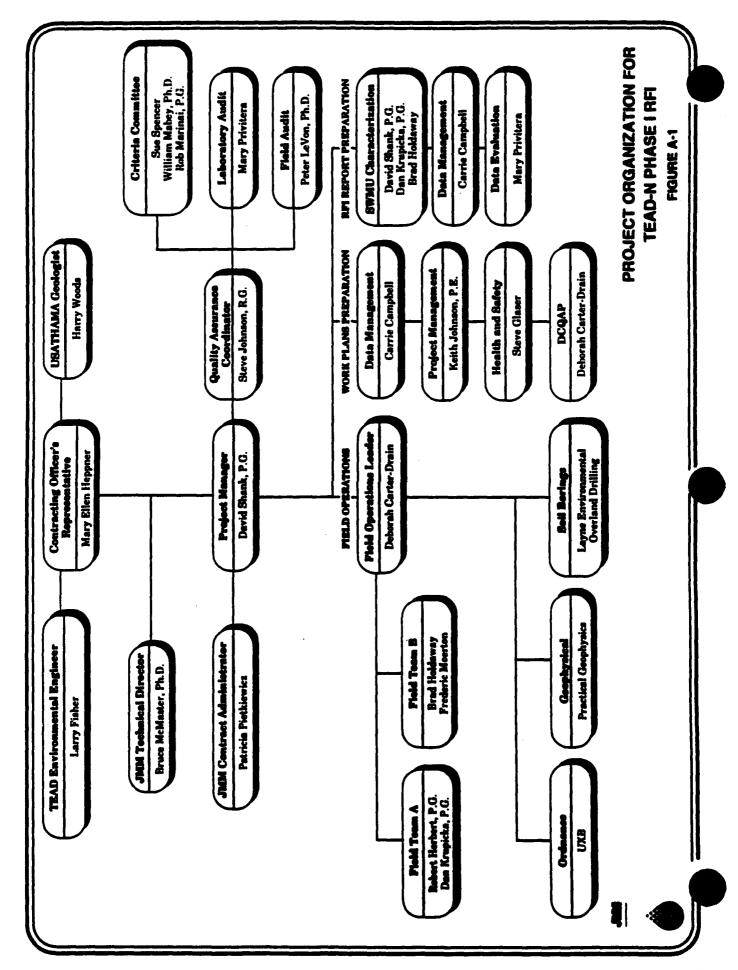
A3 FIELD PROGRAM ORGANIZATION

A.S.O.1. The JMM project team for the 1992 RFI was staffed and supported mainly through the Salt Lake City office of James M. Montgomery, Consulting Engineers. Some support staff from other JMM offices were utilized as needed. The JMM team was also supported by personnel from several qualified subcontractors at various stages of the project. Figure A-1 shows the project organization for this Phase I RFI.

A.S.1. JMM Field Team Organization

A.3.1.1. JMM field team personnel were divided into two separate field teams of two individuals each, which were supervised and coordinated by the Field Operations Leader. These field teams were designated "Team A" and "Team B" for purposes of field operations identification. Each field team was responsible for investigative activities at certain SWMUs or other areas, and generally operated independently of each other. Both field teams were ensite daily for the duration of the field activities, with the exception of the first and last 10-day shifts, when only one field team was required to perform the scheduled field activities.

A.S.1.2. As well as providing supervision of the field teams, the Field Operations Leader also provided field supervision for all subcontractors associated with the field program, and served as the On-site Safety Officer.



A.S.2. Field Program Subcontractors

A.3.2.1. The following subcontractors were utilized during all or part of the Phase I field investigation at TEAD-N:

- UXB International, Inc. (UXB), of Chantilly, Virginia, fielded personnel for the duration of the field activities in the OB/OD areas. Their responsibilities for this project were focused on providing explosive ordnance support for JMM personnel, and for other subcontractors working at the OB/OD area of TEAD-N. The UXB personnel were responsible for unexploded ordinance (UXO) detection and escort, heavy equipment operation, and general support activities during test pit excavations at SWMUs 1, 1a, 1b, 1c, and 1d. They were also responsible for down-hole UXO detection during drilling of the deep soil borings at the OB/OD area. UXB prepared a summary report describing their activities which is included as Appendix F.
- Environmental Science and Engineering, Inc. (ESE) Laboratory of Gainesville, Florida, provided the analytical laboratory work for the Phase I RFI. ESE is certified by both USATHAMA and the State of Utah Division of Environmental Quality (DEQ), and was responsible for the analytical tasks associated with the investigation, as well as electronic transfer of analytical data to JMM and to the Installation Restoration Data Management and Information System (IRDMIS). SWMU-specific tables of analytical results are included with the contamination characterization of each SWMU presented in section 5.0 of the BFI Report. Appendix C contains an evaluation of the analytical program and comprehensive data files of the testing results are included in Appendix K.
- Caldwell, Richards and Sorensen Engineering, Inc. (CRS) of Salt Lake City, Utah, performed location and elevation surveys at each SWMU to provide the field teams with reference locations. A summary of the field survey data is included in Appendix H.
- Layne Environmental Services, Inc. (Layne) of Salt Lake City, Utah, conducted drilling activities at the OB/OD area, drilling nine 100-feet bereholes. Layne provided drilling equipment, operator personnel, steam cleaning and self sampling equipment (i.e., cyclone hopper, split-speen self samplers, etc.), and a

decontamination area for steam cleaning equipment. Layne also provided a smeel rig and 2 500-gallon tanks for purging and sampling the five monitoring wells included in the field investigation program for SWMU 14.

- Overland Drilling of Salt Lake City, Utah, was responsible for drilling shallow boreholes at SWMUs 26, 29, 42, and 45. Overland provided an all-terrain, hollow-stem auger drill rig, operator personnel, and all equipment and facilities for steam decontamination of equipment. All seil boring logs and test pitexcavation logs are included in Appendix B.
- Practical Geophysics of Salt Lake City, Utah, conducted terrain conductivity and magnetic geophysical surveys at the Burn Pad (SWMU 1b) and the Trash Burn Pits (SWMU 1c) during the OB/OD Area investigations. In addition, Practical Geophysics prepared digitally rectified aerial photographs of the areas of interest and fielded two personnel and equipment to conduct numerous geophysical traverses across previous burn/disposal features noted on aerial photographs. For this, survey equipment was used to locate these features from established reference points. Practical Geophysics also prepared a summary report of their activities which is included as Appendix E.
- The Salt Lake City office of Dames and Moore provided geotechnical support for
 this investigation by conducting geotechnical soil analyses of selected soil
 samples from the test pits and borings. Dames and Moore provided the personnel
 and facilities to conduct soil sieve and Atterburg limit analysis, as well as specific
 gravity determinations. Appendix J contains the results of the Dames & Moore
 geotechnical testing program.

AA SWMU-SPECIFIC INVESTIGATIONS

A.4.0.1. Introduction. This section provides a summary of the field activities performed at TEAD-N during the period of mid-May to mid-August of 1992. Activities conducted prior to the beginning of fieldwork are summarized, followed by a description of the fieldwork performed by the respective field team at each SWMU.

A.A.1 Preparatory Activities

A.4.1.1. During the period of May 11 to May 22, JMM personnel completed several activities in preparation for the upcoming field effort at TEAD-N:

- A site visit to TEAD-N by JMM field personnel was conducted on May 15 for the purpose of familiarization with SWMU locations, sampling locations, sampling rationales, and obtaining base access badges for field personnel.
- Water Well III was sampled and tested according to USATHAMA procedures and designated as a clean water source.
- Two mobile office trailers were delivered to the base by Gelco, Inc. of Salt Lake City on May 19, and sited. The main office trailer was placed at the north end of the maintenance area at the location of Building 700. The other mobile trailer was placed at the OB/OD area for the use of the field crew during the field effort there.
- The field trailers were stocked with office supplies and other necessary
 equipment. Both trailers were supplied with electric service by TEAD-N. The
 main office trailer at the maintenance area was equipped with telephone service,
 a fax machine, and a copier. A portable outhouse was also delivered to each field
 trailer.
- Necessary field equipment such as field vehicles, sampling equipment, health and safety monitoring devices, cellular phones, etc., was gathered and transported to the JMM office trailers at TEAD-N.
- The necessary utility clearances, excavation permits, and a wastewater discharge permit were obtained from the appropriate base agencies.
- A meeting of JMM project personnel was held at the main office trailer at TEAD-N to become familiar with the IRDMIS nomenclature. Other topics discussed included sample documentation, COC procedures, QA/QC precedures, and health and safety issues.

A.A.2. Open Burning/Open Detonation Areas (SWMU 1, 1a, 1b, 1c, 1d)

A.A.2.1. The Open Burning/Open Detonation Area consists of five subareas. These include:

- Main Demolition Area (SWMU 1)
- Cluster Bomb Detonation Area (SWMU 1a)
- Burn Pad (SWMU 1b)
- Trash Burn Pits (SWMU 1c)
- Propellant Burn Pans (SWMU 1d)

A.4.2.2. Because the Main Demolition Area, Cluster Bomb Detonation Area, and Propellant Burn Pan Areas are located near each other, these subunits were investigated at the same time and the field activities conducted at each are described together in this appendix. The Burn Pad and the Trash Burn Pits, which are also located near each other in an adjacent area, were also investigated at the same time and activities conducted in these areas are also described together.

A.A.S. Main Demolition Area (SWMU 1), Cluster Bomb Detonation Area (SWMU 1a), and Propellant Burn Pans (SWMU 1d).

A.A.S.1. Introduction. Although obscured by recent activity and plant growth, historical aerial photographs indicate the presence of numerous trenches and craters in the Main Demolition Area and Cluster Bomb Area. Since the Propellant Burn Pan Area is relatively new, this subarea does not appear in any of the historical aerial photographs. Field work, which consisted of locating and sampling these features, was carried out by Team A during the period May 27 to July 2, 1992.

A.4.3.2. Scope of the Investigation. The investigative techniques used to support the data requirements at SWMU 1, SWMU 1a, and SWMU 1d included:

- Interpretation of historical aerial photographs
- Conducting ground truthing activities (field observations) to locate disturbed areas and confirm locations of previous OB/OD sites
- Clearing munition metal parts from work areas.

- Excevating, sampling, and logging of 95 test pits, for a total of 200 samples
- Field acreening selected soil samples using USATHAMA-approved field methods for the determination of explosives in soil
- Drilling and sampling five 100-foot deep soil borings
- "Marking selected test pits containing significant ash or debris with a permanent marker. Markers consist of a concrete-filled tube buried at least 2 1/2 feet in the ground with approximately 8 inches above ground. The top surface of the concrete contains a brass survey marker containing the test pit number. Table A-1 contains a list of marked test pits.

A.4.3.3. Laboratory Analytical Programs. All test pit samples were analyzed for explosives, metals, and anions. Selected samples were also analyzed for VOCs and SVOCs, depending on PID readings and spatial sampling distribution. One sample exhibiting staining or burn residue from each area (SWMU 1, SWMU 1a, and SWMU 1d) was collected and submitted for polychlorinated dibenzodiexins/polychlorinated dibenzofurans (PCDD/PCDF) analysis. All borehole samples in the OB/OD areas were analyzed for explosives, metals, and anions.

A.A.S.A. A number of samples from each subarea were also collected for explosive reactivity testing. However, before shipping, these samples were screened using the USATHAMA explosive field screening methods for TNT and RDX. Once the samples were screened, they were shipped to Southwest Research Incorporated (SWRI) for explosive reactivity testing by the U.S. Bureau of Mines GAP and Internal Ignition tests. Appendix G contains a summary of both the field screening methods and the results of the subsequent reactivity testing.

A.A.A. Burn Pad and Trush Burn Pits (SWMU 1b and SWMU 1c)

A.A.1. Introduction. Since SWMU 1b and SWMU 1c are both located proximal to each other, they were investigated by the same methods during the same time period. These investigations were conducted by Team A during the period August 4 to August 12, 1992.

TABLE A-1
SUMMARY OF TEST PITS WITH PERMANENT MARKERS

	EP-01-015	EP-01-053	EP-01-106
	EP-01-018	EP-01-096	EP-01-107
	EP-01-019	EP-01-099	EP-01-106
	EP-01-025	EP-01-100	EP-01-109
•			
	EP-01-028	EP-01-102	
	EP-01-029	EP-01-104	
	EP-01-052	EP-01-106	,
	•	EP-01-018 EP-01-019 EP-01-025 EP-01-026 EP-01-028 EP-01-029	EP-01-018 EP-01-096 EP-01-019 EP-01-099 EP-01-025 EP-01-100 EP-01-026 EP-01-101 EP-01-028 EP-01-102 EP-01-029 EP-01-104

Note: Test pits up through EP-01-053 are in SWMUs 1, 1a, and 1d.

Test pits with numbers EP-01-096 and greater are shown in SWMUs 1b and 1c

A.4.2. Scope of the Investigation. The field program at these subunits was similar to that conducted in the other OB/OD areas and consisted of the following elements:

- Analyzing historical photographs to identify locations of burial pits and other areas of activity
- Developing a detailed composite aerial photograph based map which indicated burial sites
- Conducting a field survey to locate each burial area as indicated by the composite map
- Clearing munition metal parts from work greas
- Confirming burial areas using magnetic and terrain conductivity geophysical surveys
- Excavating and sampling 26 test pits, for a total of 52 surface and shallow sell samples
- Field screening selected soil samples for explosives

- . Drilling three, 100-foot boreholes
- Marking selected test pits that contained significant ash or debris. Table A-1
 (above) contains a list of the marked test pits.

A.4.3. Laboratory Analytical Programs. All test pit samples were analyzed for explosives, metals and anions. Six samples were selected for explosive reactivity analysis. In addition, selected samples were analyzed for VOCs and SVOCs. Because past OB/OD activities may have generated dioxins, one sample containing abvious burn residue was selected for PCDD/PCDF analysis. Borehole samples were submitted for analysis of explosives, metals, and anions, and three samples were selected for explosive reactivity testing.

A.4.5. Box Elder Wash

A.4.5.1. In addition to sampling activities in the OB/OD subunits, eight surface soil samples were collected along the Box Elder Wash drainage to determine if OB/OD activities have released contaminants that may have been transported by surface water run-off. All eight of these samples were analyzed for explosives, metals, and anions.

A.A.S. Sandblast Areas (SWMU 4)

A.4..6.1. Introduction. Three Sandblast Areas exist in the Maintenance Area of TEAD-N. The Sandblast Areas were investigated by Team A on July 21, 1992. Samples were collected to determine if used sandblast media stored in these areas have released contaminants to the environment, as previous analysis of used sandblast media showed that it may contain hazardous constituents.

A.4.6.2. Scope of the Investigation. Two soil samples were collected from each of three sandblast facilities. Sampling at each location occurred near dumpsters that contain spent sandblast media. Because of obstructions such as concrete slabs and paving, the exact sampling locations were determined by field personnel with the objective of sampling potentially effected surface soils and surface water runoff areas.

A.4.6.3. Laboratory Analytical Program. Samples collected from the Sandblast Areas were analyzed for VOCs, 5VOCs and metals.

A.A.7. Sewage Lagoons (SWMU 14)

A.4.7.1. Introduction. Previous investigations identified the two sewage lagoons located west of the Maintenance Area as a possible source of ground water contamination. To evaluate this possibility, Field Team B collected sediment and surface water samples from the sewage lagoons July 13, 1992.

A.4.7.2. Scope of the Investigation. Two surface water samples and two sediment samples were taken from the south lagoon (as this lagoon was dry). In addition, groundwater samples from 5 nearby monitoring wells were collected during two rounds of sampling. To provide access for sampling the interior portions of the sewage lagoons, a small row boat was used. Sediment samples were collected using an Eckmen Dredge-type clamshell sampler. Surface water samples were taken by filling the analyte-specific sampling containers directly from the lagoon. Groundwater samples were collected by using a decontaminated stainless steel bailer. Wells sampled include: N-134-90, B-1, N-135-90, N-136-90, and A-3. Prior to sampling, each well was purged using a stainless steel bailer on a smeel-type pump rig to remove five casing volumes of ground water. All purge and decontamination water was containerized for discharge to the TEAD-N industrial wastewater treatment plant.

A.4.7.3. Analytical Program. The surface water and sediment samples were analyzed for VOCs, SVOCs, metals, and anions. Groundwater samples were analyzed for the same parameters with the addition of TPHC.

A.A.S. AED Demilitarization Test Facility (SWMU 19)

A.4.8.1. Introduction. A field investigation at the AED Demilitarization Test Facility was conducted by Team A on July 8, 1992, to determine if contaminants have been released to surface soils at the site. Contamination releases could have occurred at several locations where demilitarization test activities were conducted and from Building 1373 where historical serial photographs indicate a liquid was spilled.

A.4.8.2. Scope of the Investigation. Twelve surface soil samples were sited to provide general coverage of the facility. Specifically, three samples were collected from the southeast end of building 1376, where a suspected spill was indicated in historical aerial photographs; eight samples were taken from several test areas within facility revetments; and one sample

was taken from an open area south of the facility where blast propagation cuiting the reported to have been conducted. Exact sample locations were determined judgmentally by sampling personnel based on field observations.

A.4.8.3. Analytical Program. All samples were analyzed for explosives, VOCs, SVOCs, metals and anions. Two samples were selected for explosive reactivity testing following field acreening.

A.A.9. AED Deactivation Furnace Site (SWMU 20)

A.S.1. Introduction. With the exception of the analysis of baghouse dust, no previous investigations were conducted at the AED Deactivation Furnace Site. Due to the presence of heavy metals in the baghouse dust and the potential for releases from this facility, a site investigation was conducted by Team A on July 9 and 10, 1992.

A.4.9.2. Scope of the Investigation. A total of 16 surface soil samples were cellected from the AED Deactivation Furnace Site. Soils around the perimeter of the facility and beneath the asphalt surface were sampled. Exact sample locations were determined judgmentally in the field by sampling personnel.

A.S.S. Analytical Program. All soil samples were analyzed for total metals, explosives, VOCa, and SVOCa.

A.A.10. Deactivation Furnace Building (SWMU 21)

A.4.10.1. Introduction. Previous investigations indicated the presence of metals and crossels in dust from the baghouse and on the floor underneath a conveyor. Because several potentially-hazardous compounds were detected in the dust and no environmental information was available for this site, a surface soil investigation was conducted by Team A on July 11, 1992.

A.4.10.2. Scope of the Investigation. A total of 10 surface sell samples were collected from around the perimeter and beneath paved areas at SWMU 21. Exact sample locations were based on judgment and field observations.

A.4.10.3. Analytical Program. Samples were analysed for VOCs, SVOCs, total metals, explosives, and PCDD/PCDP.

A.4.11. DRMO Storage Yard (SWMU 26)

A.4.11.1. Introduction. Since no previous sampling had been conducted at the DRMO Storage Yard, an extensive soil sampling program was used to determine if previous waste handling practices released contaminants to the surface and near surface soils. Team B personnel conducted sampling during the period of June 23 -24, and June 29 - July - 7, 1992. Overland Drilling provided drilling subcontracting services at this SWMU.

A.4.11.2. Scope of Investigation. The intent of the sampling program was to previde general coverage of the entire DRMO Storage Yard by using a combination of random and judgmental sampling criteria. The sampling program consisted of the following elements:

- Establishing a sampling grid covering the entire DRMO Storage Yard
- Collecting 45 surface soil samples from stained or randomly-chosen locations from within the grid spaces
- . Drilling soil borings to 3 feet bgs at 15 of the sample locations.
- Collecting a total of 15 shallow subsurface samples (from appreximately 3 feet bgs).

A.4.11.3. The sampling grid was constructed using 150-foot spacing between grid lines. Sampling locations were chosen by selecting obviously stained and/or low lying areas. If no staining was present, a random number generator was used to generate a decimal number between 0 and 1, which was then multiplied by the maximum north and east cell dimension (150 feet). The resulting products represented the distances, measured from the southwest corner of each cell, to the sample location.

A.4.11.4. The 15 shallow subsurface soil sample locations were determined by choosing the most obvious stained and/or low-lying areas. Drilling occurred after the location was first sampled for a surface soil sample. A 2.5-foot split speen sampler was driven to a depth of 3 feet using a 140-pound hammer on a CME 750 drilling rig. Upon retrieval, the speen was opened, tested with an FID and sampled for VOCs. Each sample was photographed and logged in a boring log form. The sample was then placed into a stainless steel howl and mixed with a stainless steel trowel or speen before being sampled for other analyses.

A.4.11.5. Analytical Program. All of the samples selected for libration, and selected analysed for VOCs, SVOCs and metals.

A.4.12. RCRA Container Storage Yard (SWMIJ 27)

A.A.12.1. Introduction. An investigation of the RCRA Container Storage Yash was conducted by Team B on July 15, 1982. The focus of the compling activities were dealer along in the facility coming from spill containment areas which daylight to the cutaids of the building. Also, areas where drums awaiting transportation to effects disposal sites were routinely stored on pallets along the perimeter of the fenced area of this facility were investigated.

A.4.12.2. Scope of Investigation. The sampling appreach consisted of collecting a surface soil sample beneath each of four drain pipes and three additional samples from areas where drams have been temporarily stored. Because gravel fill has been placed over the ground surface at this facility, soil samples were collected from sails immediately beneath the gravel fill.

A.4.12.3. Analytical Program. All soil samples were analyzed for VOCs, 5VOCs, and total metals.

A.A.13. 90 Day Storage Area (SWMU 28)

A.4.13.1. Introduction. No previous investigation had been conducted at the 90-Day Drum Storage Area because it is only a few years old and it was determined that contaminant releases were unlikely. However, to meet Phase I RFI objectives, a surface cell compling program was conducted.

A.4.12.2. Scope of Investigation. A total of eight surface sell samples were collected from the 90-Day Drum Storage Area. Three of the soil samples were collected from the area sround an oil/water separator and five samples were collected following inspection of the ground surface for staining and/or low lying areas.

A.4.18.5. Analytical Program. All complex were submitted for total metals, VDCs, SVOCs, and TPHC.

A.4.14. Drum Storage Areas (SWMU 29)

A.4.14.1. Introduction. A limited number of surface soil samples were analyzed from the Drum Storage Areas during a previous remedial investigation (Weston, 1990). However, analyses of aerial photographs showed that soils in several areas where drums were staged had not been sampled. To meet the objectives of the Phase I RFI, additional surface and subsurface soil samples were collected to evaluate potentially contaminated areas. Team B conducted soil sampling activities during the period June 10 to June 18, 1992. Overland Drilling provided drilling services.

A.4.14.2. Scope of Investigation. Sampling was designed to provide general coverage of the areas where drums were known to have been stored. The approach consisted of the following elements:

- Establishing a sampling grid in areas where historical aerial photographs and observations by persons knowledgeable of the site indicated drums were stored
- Selecting 27 shallow boring locations in the sampling grid spaces, and drilling and collecting a surface (0 to 2 ft bgs) and a shallow subsurface soil sample (3 to 5 ft bgs) in each borehole
- Drilling 10 5-foot soil borings in low-lying areas where precipitation runoff would tend to accumulate or flow, and collecting a surface (0 to 2 ft bgs) and a shallow subsurface (3 to 5 ft bgs) soil sample in each borehole.

A.4.14.3. The sampling grid was constructed using 100-foot specing between grid lines. Sampling locations were decided by selecting obviously stained and/or low lying areas. If no staining was present, a random number generator was used to generate a digital number between 0 and 1. This number was then multiplied by the maximum north and east cell dimension (100 feet). The resulting products represented the distances, measured from the southwest corner of each cell, which determined the sample location.

AA.14A. A 2.5 inch diameter split spoon sampler was driven to a depth of 2 feet using a 140 pound hammer on a CME 750 drilling rig. The spoon was then opened, tested with an FID or PID, sampled for VOCs, photographed, and logged. The sample was then placed into a stainless steel bowl and mixed with a stainless steel spoon before being sampled for other analytes. The borehole was then advanced to a depth of 5 feet and the process repeated.

A.A.14.5. Ten shallow soil borings were also drilled in areas that may have been contaminated by surface water runoff from the Drum Storage Areas. The boreholes were positioned at topographic low areas such as drainage ditches, or areas where spills onto the asphalt surface of the Drum Storage Area may have collected or run off. Exact locations were determined judgmentally by field observations. A shallow and deep soil sample were also collected from each borehole using the previous sampling procedures.

A.4.14.6. Analytical Program. The surface soil samples collected from 0 to 2 feet bgs from the 27 grid-sited soil borings were analyzed for less mobile chemicals (i.e., total metals and pesticides). Seven of these samples were also selected for VOC, SVOC, and TPHC analyses based on organic vapor monitoring and/or soil staining. The deeper soil samples from these soil borings, collected at depths of 3 to 5 feet bgs, were all analyzed for total metals, pesticides, VOCs, SVOCs, and TPHC.

A.4.14.7. All of the samples from the ten soil borings in low lying areas were sampled for total metals and pesticides. In addition, three of the shallow samples were also submitted for VOC, SVOC, and TPHC analyses, and all 10 deep samples were analyzed for VOCs, SVOCs, and TPHC.

A.4.15. Pesticide Handling and Storage Area (SWMU 34)

A.4.15.1. Introduction. Historical information indicates that this SWMU has operated as a pesticide/herbicide handling and storage facility since the 1940s. Because these activities may have released contaminants to the environment, an investigation was conducted to meet the objectives of the Phase I RFI. Team A personnel sampled surface soils at this SWMU on July 21, 1992.

AA.15.2. Scope of Investigation. A total of six surface soil samples were collected from the Pesticide Handling and Storage Area. Three samples were from beneath drain pipes from a fuel storage tank, mixing sink catch-tank, and a loading area drain, while three s_mples were taken from open areas around the building.

A.4.15.3. Analytical Program. All samples were analyzed for pesticides, herbicides, and metals.

A.A.16. Contaminated Waste Processing Plant (SWMU 37)

A.4.16.1. Introduction. Waste management practices at the Contaminated Waste Processing Plant (CWP) indicate a potential for a release of metals, SVOCs, PCDDs and PCDFs to the surrounding surface soils. To satisfy the objectives of the Phase I RFI, surface soil samples were collected from around the CWP by Team A on July 13, 1992.

A.4.16.2. Scope of the Investigation. Twelve surface soil samples were collected from areas around the CWP chosen judgmentally based on field observations. Two surface soil samples were collected along the outside perimeter of each side of the facility and four surface samples were collected from exposed surface soils inside the facility perimeter. One sample was collected from the existing UST location.

A.416.3. Analytical Program. All samples were analyzed for total metals, VOCs, SVOCs, explosives, and PCDD/PCDFs.

A.4.17. Industrial Wastewater Treatment Plant (SWMU 38)

A.4.17.1. Introduction. According to available information, windblown granular activated carbon (GAC), originating from open shipping containers stored at the Industrial Wastewater Treatment Plant (IWTP), may have contaminated the surface soil along the west side of this facility. To determine if contamination was present, surface soils were sampled by Team B on July 21, 1992.

A.4.17.2. Scope of the Investigation. A total of five samples were collected at the IWTP in the vicinity of a used GAC storage bin. Four surface soil samples were collected along the west side of the plant where used GAC was observed. One sample of spent granular activated carbon was also collected directly from a shipping container. Exact sampling locations were determined judgmentally.

A.4.17.3. Analytical Program. The sample of spent carbon was analyzed for VOCs, SVOCs, metals, and TCLP characteristics for VOCs, SVOCs, and metals. Soils were analyzed for VOCs, SVOCs, and total metals.

A.4.18. Bomb Wash Out Building (SWMU 42)

A.4.18.1. Introduction. Previous data indicated that elevated levels of metals were present in soils around this facility. An extensive field investigation of surface and shallow subsurface soils was conducted at this SWMU to confirm that a release had occurred and to evaluate the lateral distribution of contaminants that might be present. This investigation was carried out by Team B during the period July 26 - 28, 1992.

A.4.18.2. Scope of Investigation. Field Team B personnel selected the exact sample locations according to observations such as soil discoloration and/or lack of vegetation. Specific elements of the field sampling program included:

- Drilling seven soil borings to approximately 5 feet bgs along a wash water discharge flume and holding pond, and selecting two samples per borehole.
- Drilling two shallow soil borings to approximately 5 feet bgs at locations on either side of the discharge ditch and holding pond, and selecting two samples per borehole.
- Drilling four soil borings to approximately 5 feet bgs at the former location of the second furnace site (where discoloration and small quantities of metallic lead were found) and selecting two samples per borehole.
- Collecting eight surface soil samples from locations within a 300-foot radius of the Bomb Washout Building (Building 539).

A.4.18.3. Analytical Program. All samples were analyzed for total metals and explosives.

A.4.19. Stormwater Discharge Area (SWMU 45)

A.4.19.1. Introduction. Some preliminary samples taken from the Stormwater Discharge Area in 1990 by TEAD-N EMO personnel revealed the presence of VOCs in surface water and sediments. To determine if the pended water and sediment in this area continues to be a source of contamination, additional samples of surface water and sediment were collected by Team B personnel on July 9, 1992.

A.4.19.2. Scope of Investigation. Three surface water samples and five sediment samples were collected from the Stormwater Discharge Area pond. Sample locations were left to the field team members' discretion. To evaluate the possibility of vertical contaminant transport, one 25-foot soil boring was drilled as close to the ponded water as possible, and seven samples from the boring were selected for analysis.

A.4.19.4. Analytical Program. Surface water samples were analyzed for VOCs, SVOCs, metals, and explosives. Sediment samples were also analyzed for the above constituents as well as for pesticides. The seven samples from the 25-foot seil boring were analyzed for VOCs, SVOCs, metals, and explosives.

A.4.20. Used Oil Dumpsters (SWMU 46)

A.4.20.1. Introduction. Used oil dumpsters are located throughout the Administration and Maintenance Areas of TEAD-N. To determine if they have released contaminants to the environment, samples of surface soils and shallow subsurface soils were collected by Team A during the period July 22 - 25, 1992. In addition, because a large diesel oil spill was reported adjacent to the southeast corner of Building 637, this area was also sampled.

A.4.20.2. Scope of Investigation. Investigations at this SWMU entailed collecting 36 soil samples in the vicinity of several used oil dumpsters and from the southeast corner of Building 637. Sample locations were determined judgmentally in the field. Where possible, up to two surface samples and two subsurface (approximately 1 foot) samples were collected at each used oil dumpster. Additional samples were collected in surface water runoff pathways.

A.4.20.3. Analytical Program. All samples were analyzed for TPHC.

A.4.21. Boiler Blowdown Water (SWMU 47)

A.4.21.1. Introduction. This SWMU consists of three locations: Buildings 600, 610, and 637. Boiler blowdown water discharged at each of these locations was suspected of containing contaminants that could be released to the nearby soils and surface water. To determine if boiler blowdown water has released contaminants to the environment, samples of surface water and sediment were collected. Sampling was conducted by Team B personnel on July 15, 1992.

A.4.21.2. Scope of Investigation. The types of media sampled at each SWMU 47 location were determined by the field investigation team and depended upon the conditions at each location. At Building 610, both a surface water and sediment sample were collected from sump where boiler blowdown water discharges from the building. At Building 600, a sample of sediment was collected from the east side of the building where boiler blowdown water discharges onto the ground. Because no surface water was present, it was not sampled. At Building 637, boiler blowdown water discharges to a drain which leads to the IWTP. Because the discharge is onto a paved surface, and no surface water or sediment were present, no sample was collected from this location.

A.4.21.3. Analytical Program. Sediment and surface water samples were analyzed for VOCs, SVOCs, total metals, and TPHC.

A.5 FACILITY-WIDE INVESTIGATIONS

A.5.0.1. In addition to the field activities performed to characterize contamination at specific SWMUs at TEAD-N, three facility-wide investigations were conducted during the field program. These include: background soil sampling, groundwater elevation measurement, and a topographic field survey. These investigations are summarized in the following sections.

A.5.1. Background Soil Sampling

A.5.1.1. Shallow Background Soil Borings. During the period of July 26-27, Team A personnel completed five shallow soil borings in undisturbed soils across TEAD-N. The boring locations were sited to provide data on the five soil types identified at TEAD-N by the U.S. Soil Conservation Service. In addition to these five soil borings completed by JMM personnel, four shallow borings were completed by personnel from SEC Donahue during their concurrent field program at TEAD-N. The combined data from these shallow soil borings was used to develop a data base of background, or baseline, concentrations of metals and anions that is representative of the natural, undisturbed soils at TEAD-N. Sample locations and the results of the background soil sampling programs are discussed in section 4.0 of the Phase I RFI Report.

A.5.1.2. The borings were completed to a depth of 5 feet using a stainless steel hand bucket auger. Two samples were taken from each boring; one from a depth of 0 to 1 foot, and the

other from a depth of approximately 3 to 5 feet. The collected soil samples were submitted for analysis for total metals, selected anions, and pH.

A.5.1.3. Deep Background Soil Boring. During July 22-23, JMM and Layne Drilling personnel completed one 100-foot deep background soil boring in the southwestern corner of the TEAD-N facility. This deep boring was sited to provide background analytical data on the deeper soils at the OB/OD Area. Seven soil samples selected from this boring were submitted for metals, anions, and pH analyses.

A.S.2. Groundwater Elevation Measurement

A.5.2.1. On July 9, JMM personnel conducted depth-to-water measurements of 48 monitoring wells and piezometers across TEAD-N, and including some wells located off the facility. This time of year was chosen to correspond to the seasonal ground water maximum at the facility. Water levels were measured to the nearest 0.01 foot using a Solinist electronic water level meter. All measurements were referenced to a known elevation at the top of the inside well casing.

A.5.2.2. In late January, 1993, a second round of groundwater measurements was conducted at the previously-measured wells and piezometers, located both on and off the Depot. This round of measurements was scheduled to correspond with the approximate seasonal ground water low at TEAD-N. The same techniques and equipment were used as in the previous round of measurements. The data from both rounds are summarized in the groundwater elevation contour map presented in Section 3.0 of the Phase I RFI Report. In addition, a summary of the measurements and elevations is included in Appendix D.

A.5.3. Field Survey

A.S.3.1. Two topographic surveys were conducted in support of the Phase I RFI field program. The first was conducted across TEAD-N during the first weeks of the field work. To enable sample locations to be tied to the references at the time of sample collection, survey reference locations were sited and marked at each SWMU where field sampling activities would be conducted. These surveyed reference locations are included in Appendix H. All survey data and sample location data were presented in terms of the Utah State plane coordinate system, for entry into the IRDMIS data base.

A.S.S.2. The second topographic field survey was conducted during the final stages of the Phase I RFI field work. During this effort, the locations of the nine deep soil borings at the OB/OD Area, and the 25-foot boring drilled at SWMU 45, were directly surveyed. This information was entered into the IRDMIS data base and is also included in Appendix H.

AS OTHER FIELD OPERATIONS

A.S.1. Soil Geotechnical Analyses

A.6.1.1. Approximately 12 percent of the soil samples collected during the RFI were submitted to the geotechnical laboratory of Dames and Moore in Salt Lake City, Utah, for geotechnical analysis. Parameters analyzed include grain-size analysis (to confirm on-site USCS soil characterizations), specific gravity, and Atterburg limits. Appropriate American Society for Testing and Measures (ASTM) methods were used for the respective analyses. A summary of the geotechnical testing program results is included as Appendix J.

A.6.1.2. Soil samples submitted for geotechnical testing were selected by JMM personnel according to the following criteria:

- At least one representative sample of each soil horizon sampled at each SWMU or encountered at the background soil sampling locations
- Representative samples of each major soil unit encountered in the deep background soil boring at the OB/OD Area

A.6.2 Archived Soil Samples

A.6.2.1. For selected soil samples, an additional aliquot of sample was containerized in commercially-available mason jars and archived for future inspection and geotechnical analysis by USATHAMA personnel. Samples archived included all those collected from the test pits and the deep soil borings at the OB/OD Area, samples collected from all shallow soil borings, and soils representative of those encountered at surface sampling sites at all SWMUs.

A.S.2.2. The mason jars containing the archive samples were labeled and placed back into their respective cardboard boxes, which each contained 12 jars. The samples are currently stored at Building 506 in the administration area of TEAD-N.

A.S.3 Field Explosives Screening

A.S.3.1. A total of 24 soil samples from the field investigation were submitted for explosive reactivity analysis using the U.S. Bureau of Mines GAP Test and the Internal Ignition Test. These samples included:

- Twenty-two soil samples selected from the test pit excavations and the deep soil borings at the various OB/OD subunits
- Two surface soil samples collected from SWMU 19, the Demilitarization Test
 Facility

A.6.3.2. Prior to shipment of these samples, field screening for the presence of the explosive compounds 2,4,6-TNT and RDX was conducted by JMM personnel. These samples were analyzed using the USATHAMA methods "Field Method For The Determination Of 2,4,6-TNT In Soil" and "Field Method For The Determination Of RDX In Soil", which are included as Appendix D in the DCQAP (JMM, 1992a). An on-site field laboratory was set up for the screening analyses, including a Hach DR2000 spectrophotometer, glassware, and all necessary reagents.

A.S.S. The purpose of the field screening was to avoid the commercial shipment of material considered hazardous due to its explosive nature. Even though some of the screened soil samples showed traces of 2,4,6-TNT and/or RDX above the respective method CRLs, none were noted to be at or above the threshold for explosivity, which is about 10 percent (by weight) of explosive compound(s). The results of the explosives screening analyses are included in Appendix G.

A.7 HEALTH AND SAFETY PROGRAM

A.7.0.1. Due to the potential for encountering hazardous materials during invasive field activities at TEAD-N, the Health and Safety program was a major part of the preject. The purpose of the Health and Safety Program was to provide the field investigation personnel, including subcontractors, with a safe working environment during field activities at TEAD-N.

A.7.1 General Health and Balety Procedures

A.7.1.1. The following project-wide health and safety procedures were applied during the field investigation:

- All JMM employees and subcontractor personnel were required to be current
 with respect to OSHA hazardous waste site worker training requirements as
 stated in 29 CFR 1910,120. All on-site employees were also required to be
 participants in their respective employers' medical surveillance program.
- All personnel were required to attend a daily tailgate safety meeting, conducted by the On-site Safety Officer (OSO). For activities at the OB/OD area, the tailgate safety meetings were conducted by the UXB International field team leader. Written documentation, including the signatures of all attendees, was maintained.
- A written log was kept of calibrations of all instruments used to monitor a site for health risks.
- Applicable personal protective equipment (PPE) was utilized according to the site activity. This is treated in more detail in the next sections.
- Continual air monitoring was conducted at all sites where contamination was suspected to be present. The monitoring program utilised an Organic Vaper-Monitor (OVM) photo ionization detector, and an Organic Vaper Analyzer (OVA) flame ionization detector to monitor for presence of health-endangering organic vapors. In addition, each field team was equipped with a Miniram PDM-3 respirable dust monitor to quantitate respirable dust present in the work sens. Table 6-1 in the HASP (JMM, 1992c) lists these levels of dust and organic vapors requiring an upgrade in PPE. During the field investigation activities, no level of organic vapor was detected requiring an upgrade in PPE. Applicable instrument readings were taken at 15-minute intervals during field activities, and reserved on dedicated forms.
- Monitoring of boreholes for the pressure of explosive vapors was candusted uning a portable Combustible Gas Indicator. No detectable explosive vapors were encountered during field activities.

- Noise monitoring was conducted periodically during invasive site activities such as drilling. A noise dosimeter was used to check for time-weighted average exposures greater than 85 dBA, which would require mandatory use of hearing protection devices. Noise levels during percussion hammer drilling routinely exceeded the 85 dBA level, and hearing protection was worn by all involved personnel during drilling of the deep boreholes.
- The "buddy system" was used during all field activities in areas where contamination was suspected. This kept each field individual within the observation of another person, insuring rapid response to any medical emergency.
- Emergency response phone numbers and maps showing the most expedient routes to emergency medical facilities were kept in each field vehicle and also each office trailer.
- Level C PPE was maintained on-site for all field team and subcontractor
 personnel where an upgrade in PPE might be necessary. This included Tyvek
 outerwear, Tyvek or rubber boots, rubber gloves, and a full- or half-face
 respirator equipped with the appropriate cartridges. All respirators were
 required to have been previously fit-tested for that individual.
- As per TEAD-N Safety Program requirements, equipment worn by individuals
 engaged in steam-cleaning activities included a waterproof suit with hood,
 earplugs or earmuffs, a face shield plus safety glasses, insulated rubber gloves,
 and butyl rubber safety boots.

A.7.2. Health and Safety Procedures - Soil Sampling

- A.7.2.1. Contamination routes associated with soil sampling activities, and protective measures instituted during the investigation to minimize exposure to contaminants during these activities, were as follows:
 - Dust Inhalation. Dust stirred up by digging or coring into the soil, or by wind, can contain contaminants, and be inhaled into the lungs. To menitor the inhalation hazard, a Miniram PDM-3 respirable dust monitor was worn by one member of each field team. The readings were continuously observed, and

resorded at 15-minute intervals. Readings above a cartain distributed value require an upgrade in PPS to Level C, including full- or half-thee respirators.

- Vapor Inhalation. Volatile contaminants contained in the soil could pose a potential health risk if encountered during soil sampling activities. To meniter this possible exposure route, each field team carried an OVM or OVA organic vapor detector. Readings were recorded every 15 minutes. Organic vapor levels at, or above, the designated threshold values would require upgrading of PPE to Level C.
- Skin Contact. As with the inhalation hazard, dust stirred up by wind or sampling activities can also come in contact with expessed skin. As previously mentioned, a Miniram portable dust monitor was worn by a member of each field team to monitor this airborne dust hazard. Also, soil sampling activities can cause direct contact of the hands and forearms with the soil being sampled. To alleviate this contact hazard, disposable rubber gloves and long-sleeved shirts were worn during soil sampling activities.

A.7.2.2. In general, Level D protection was required for all soil sampling activities. This included work boots (steel-tood if working around heavy equipment), long pants, long-eleved shirts, and safety glasses. The added protection of polycosted Tyvek coveralls was required for soil sampling at SWMU 34, the Pesticide Handling and Storage Area, due to the increased possibility of encountering volatile and semi-volatile posticide residues in the sampled soils.

A.7.3. Health and Safety Procedures - Water Sampling

A.7.3.1. Water-born contaminants present during water sampling activities at TEAD-N could conceivably pose a health threat to team members engaged in surface water or groundwater sampling activities. To minimize contact with possible contaminants, the following measures were observed for their respective exposure routes:

Vapor Inhalation. As ground water or surface water is disturbed during the
process of physically obtaining a water sample, vapor inhalation of any velatile
constituents in the water could be increased. This could pose an inhalation
hazard to any field team member obtaining the sample. To monitor this exposure
route, each field team carried either an OVA or OVM organic vapor detector

which was continuously monitored while engaged in sampling activity at all SWMUs, with the exception of SWMU 47. No airborne contaminants were expected at this SWMU (Boiler Blowdown Water). Readings were recorded on a Daily Health and Safety Log at 15-minute intervals while the field team was at the SWMU. Threshold readings for organic vapors at the various SWMUs were generated, and appear as Table 5.1 in the HASP (JMM, 1992c). Readings at or above these threshold values required an upgrade to Level C PPE, including a half-face or full-face respirator equipped with approved organic vapor cartridges.

Skin Contact. Since the process of obtaining a surface-water or groundwater sample can involve splashing, spilling, or immersion of hands in the water, physical contact with contaminated water was considered a possible exposure route. To prevent possible contact of skin with contaminated water during the sampling process, Level D protection was supplemented with polycoated Tyvek coveralls, plus nitrile gloves. For surface-water and groundwater sampling at SWMU 14, the sewage lagoons, inner latex gloves were worn under the nitrile gloves.

A.7.A. Health and Safety Procedures - GAC Sampling

A.7.4.1. Due to the high probability of encountering volatile and semi-volatile organic contaminants while sampling the spent granular activated carbon (GAC) container at the Industrial Wastewater Treatment Plant, full Level C protection was required. This level of protection was considered necessary to insure minimum health risks while sampling this particular medium. The PPE worn by the sampling individual included a full-face air purifying respirator with combination organic vapor/HEPA cartridges, polycosted Tyvek coveralls, steel-toe boots with chemical-resistant overboots, inner latex gloves and outer nitrile gloves. Organic vapor monitoring was conducted during the sampling episode.

A.7.5. Health and Safety Procedures - Potential UXO Areas

A.7.5.1. Because the possibility of encountering unexploded ordnance (UXO) existed during field activities at the OB/OD area, procedures designed to minimize the health and safety risks associated with UXO were instituted there.

A.7.5.2. Field Eccert. Any field activities requiring any JMM field team member or subcontractor to leave established roads in the OB/OD area required an eccert by UXB cohoranterator personal. This was all factories and complete, propagated investments. All interests surveying.

A.7.5.2. Contact With Base AED Personnel. The UXB Field Project Leader maintained a working relationship with on-cite base AED personnel such that information pertaining to down-range AED activities was effectively communicated to all project personnel. This was especially important with regard to the propellant and/or munitions demilitarization activities which occurred on a daily basis, four days each week. These events required the evacuation of all project personnel to a safe area. On-going communication with base personnel also facilitated the removal or in-place demilitarization of items located during the course of OB/OD field activities.

A.7.5.4. UXO Geophysical Activities. Surface sweeps for UXO were conducted by UXB personnel preliminary to any OB/OD field activities requiring off-read movement of heavy equipment or continuous personnel traffic; i.e., excavation of test pits, drilling, and the ground conductivity/magnetic investigation. In addition to visual surface inspection, specialized electronic metal detection equipment was utilized for ordnance detection. Three instruments were on site at the OB/OD gree:

- The Foorster Ferex Electromagnetic Detector is a military approved locator used by U.S. military BOD forces under designation as the ML 26 Ordnance Locator.
 This locator was used both for surface sweeps and down-hole ordnance detection, and was the primary location instrument in use during field activities.
- The White's Eagle II Motal Detector contains a transmitter cell which operates
 on the induction principle. The adventage of the White's is its ability to detect
 both forcess and non-ferrous metals.
- The Schenstedt GA-52B locator was kept on site, but not used during the field activities.

A.7.5.5. Due to the fact that large areas of the OB/OD area were littered with abundant metal fragments from past demilitarization activities, the effectiveness of the graphysical location equipment was decreased. Interference from surface "frag" made it difficult to detect the presence of actual ordennes items. Because of this, visual surface clearing for munition

metal parts was generally used by UXB personnel to insure safe surface passage of individuals and equipment.

A.7.5.6. Excavation Procedures. Due to the extreme health hazards associated with munitions and the invasive nature of test pit excavation and sampling activities, several procedures unique to the OB/OD area were used:

- An area approximately 50 feet in radius around the previously-staked trench
 location was marked off by feur 36-inch orange traffic cones, with two other cones
 placed to mark the backhee entransalent from the area.
- UXB personnel conducted a surface visual sweep for UXO, using a method of walking parallel lanes across the marked area. Where pecable, the visual sweep was combined with geophysical methods. Any items discovered were flagged, and later reported to the base AED personnel. If, in the opinion of the UXB Project Leader, a potentially dangerous item could be safely moved to a control location, it was transported to an accessible area for removal by TEAD-N personnel.
- After moving the backhoe to the transh location, test pit excevation was begun.
 Soil was removed in 6-inch to 12-inch lifts under the observation of a UXB employee. JMM field team personnel were staged outside the 50-feet exclusion zone while excevation activities were in progress.
- As a sampling interval was reached, or at the completion of the test pit, the backhoe bucket was placed to one side, the backhoe shut down, and the JMM sampling personnel were signaled. Only at this time would the sampling team approach the test pit excavation across the previously-elegred exclusion some. An organic vapor detector (OVA or OVM) was carried by the sampling personnel and all soil samples and the excavations were menitored for organic vapors which might be present.
- Following sampling and logging tacks at the test pit, the pit was backfilled, again
 under the visual inspection of a UKB observer. No potentially explosive items
 were placed back into a test pit.
- As stated in the HASP (JMM, 1992c), encountering a drum or suspected hazardous chemical would require seasing encountries at that pit.

During the ONOS Sald investigation, around their representations and their representations, but mone wave intent.

- Project personnel working in the OB/OD area were required to have a collular
 phone on site for use in emergency situations.
- In addition to the required Level D PPE, an approved hardhet was required for both JMM and UXB personnel when working with the backhoe. Hardhets were also required for all drilling personnel while drilling deep bereheles.

A.7.5.7. Deep Borehole Drilling Precedures. As with excavation activities, the invasive nature of drilling, combined with the unique health hazards of UEO, required a health and safety procedure protective et 'man health.

- Due to the large size and weight of the percussion drilling rig used, and its support truck, it was considered necessary to clean all munition metal parts to a depth of approximately 2 feet. Because of difficulties with the geophysical methods, due to the presence of large amounts of metallic surface frag, all sell to a depth of 2 feet, was removed from each berehole location. This was accomplished by utilizing a D-7H Caterpillar, provided by TEAD-N. The operation was menitored by the UKB Project Leader.
- During drilling operations, the Foerster Ferex locator was re-configured and used down the borehole for ordnance detection. After drilling the first 4 feet, the locator was lowered to the bottom of the hole. If no metallic contacts were present, it was withdrawn and drilling preceded for another 4 feet. This precedure was repeated every 4 feet, until a depth of 20 feet was reached, below which it was assumed no munition metal parts should be precent, and drilling could proceed uninterrupted. During the deep berehole drilling, the accessity to move the drill location due to precence of munition metal parts was not encountered.

AS SAMPLE COLLECTION, HANDLING, AND SHIPPING

A.S.A.1. The goal of any field sampling operation is to obtain samples of the suspect medium such that the analytical results obtained from the laboratory are meaningful; i.e., they are precise, representative, accurate, comparable, and complete. An important part of inturing

that the data meet these criteria are the sample handling precedures used to transmit the respective samples from sampling medium to the analytical laboratory.

A.S.1. Sample Collection

A.S.1.1. Soil and Sediment Samples. Soil and sediment samples collected at the various sampling sites, with the exception of the soils collected for explosive reastivity analysis, were placed into commercially-available stainless steel bowls and physically stimed with the stainless steel sampling implement (spoon or trowel) to homogenize the sample. Following homogenization, the collected samples were placed in 500 mL amber glass jars. If the sample was to be submitted for volatile organic compounds (VOC) analysis also, an alignet of undisturbed soil at the sample location (prior to homogenization) was placed into 60 mL amber glass jars with Teflon-lined caps. These 60 mL jars for VOC analysis were filled completely, such that no void space was left between sample and cap.

A.S.1.2. A sufficient amount of sample was collected to fill two 500 mL sample jars for each sample. Two sample jars were submitted so as to provide plenty of sample material for all analyses, even in the event that one of the jars was broken during shipment.

A.S.1.3. After sample aliquets were appropriately jarred and labeled, the suil remaining in the stainless steel how was characterized according to the Unified Seil Classification System (USCS).

A.S.1.4. Soil samples collected for explosive reactivity analysis were placed directly into a 3-gallon size plastic cooler lined with a commercial plastic garbage bag. The plastic bag was wound closed and fastened with tape or a metal tie, and the lid of the cooler closed. These soil samples were not cooled.

A.S.1.5. Surface Water and Groundwater Samples. Three types of sample consiners were used for the collection of water samples during the field investigation. See Table 5-4 in the DCQAP for their respective analytes.

- 1 L amber gless jars
- 1 L plastie cube containers
- 40 mL amber glass bettles with Tellon septa expessed on the lid

A.S.I.S. All water sample containers were first triple rinsed with sample water prior to filling, and then filled completely to the top. In the case of those samples being submitted for VOC analysis, the sample container was turned upside down after securing the lid, and the sample checked for the presence of air voids, which would require correction.

A.S.1.7. Water samples requiring preservation were done in the field at the time of sample collection. Table 5-4 in the DCQAP (JMM, 1992) shows the appropriate preservative for each analyte.

A.8.1.9. All collected water samples were characterized as to pH, conductivity, and temperature at the time of sampling. All measurements were recorded in the respective field team's bound field log book, as well as on the Groundwater/Surface-Water Sampling Log.

A.S.2. Sample Handling and Shipping

A.S.2.1. Each sample obtained during the field investigation at TEAD-N was assigned a unique site ID number (sample number), using the following convention:

AA-XX-ZZZ

where: AA = Site Type where: SB = soil boring

SS = surface soil

EP = excavation pit

SD = sediment

SW = surface water

AC = activated carbon

where: XX = SWMU no. or BK = background

(for SWMU nos. less than 10 use a zero before the number - i.e., 01, 05, etc.)

where: ZZZ = sequential site number from 001 to 999

A.S.2.2. The sample containers used for the investigation were provided by ESE laboratory of Gainesville, Florida, the analytical subcontractor for the project. They consisted of precleaned amber glass I-Chem bottles with Teflon-scaled plastic lids. The sizes used during the sampling ranged from 1-L bottles to 40 mL bottles. Table 5-3 in the DCQAP (JMM, 1982),

provides detailed information on sample containers, preservatives, and holding times for soil samples, and Table 5-4 in the DCQAP describes these parameters for water samples.

A.S.1.3. Following the sampling operation and sample labeling, the sample container(s) was placed in a cooler containing frozen blocks of blue ice to cool the sample to the required 4°C. Though this is not a handling requirement for metals, cyanide or anions, it is a requirement for the majority of the other requested parameters for the investigation. As the sample was placed into the cooler, it was logged on a field sample sheet; sample number, date and time taken, number and type of bottles, and parameters requested were recorded. This helped facilitate the later completion of the chain of custody for shipping.

A.8.1.4. After the completion of the daily sampling tasks, the sample cooler contains of the samples was transported to the main on-site office trailer to be prepared for shipment to the analytical laboratory. All glass sample containers were wrapped with one or two layers of plastic bubble wrap, fresh blue ice was added to the cooler(s), and the samples were packed as securely as possible within the cooler(s). Additional bubble wrap or Styrofoam packing was used, if necessary, to hold all sample containers securely in place.

A.S.1.5. In conjunction with the packing procedure, the following handling and shipping documentation was prepared:

- A chain of custody (COC) was completed, showing all sample ID numbers, number of containers, date and time taken, analyses requested, and other pertinent information. These COC forms were provided for the investigation by ESE Laboratory, pre-printed with the sample ID designations, equipment blank and trip blank documentation was included. The original signed copies of the COC were included with one of the shipped coolers for all that respective field team's samples; they were placed inside a plastic envelope stuck to the inside of the cooler top. A copy was retained for JMM project records. The COC form was meant to meet applicable sample custody requirements and documentation necessary to maintain legal defensibility of the generated analytical data.
- A separate form was completed which recorded each individual cooler's sample contents, including equipment blanks and trip blanks. This documentation was maintained to provide a record of what specific samples were contained in an individual cooler in the event of loss of that cooler in shipment. As with the COC

forms, the original form was sent with the cooler and a copy was kept for project records.

• The field sample sheet, filled out at the time of the sampling event, was also included with the cooler and a copy retained for the project files.

A.S.1.S. After the samples and paperwork were secured in their respective coolers, the coolers were closed, fastened with fiberglass strapping tape wound around the cooler in three places, secured with dated and initialed custody seals in two places, and labeled with the appropriate shipping and return labels. A Federal Express shipping label was made out and affixed to one of the coolers; up to three coolers could be sent on one shipping label.

A.S.1.7. The completed sample coolers were transported daily, Monday through Friday, by JMM company vehicle to the Federal Express receiving office located at the Salt Lake City International Airport. Those samples collected on Saturday and Sunday were placed in a full-size refrigerator at the main JMM officer trailer. Both the office trailer and the refrigerator were secured when no JMM project personnel were present at the trailer.

A.S.1.S. All sample coolers shipped were sent via Federal Express overnight delivery to the ESE Laboratory in Gainesville, Florida.

A.S.1.9. The smaller coolers containing the soils scheduled for explosive reactivity analysis were stored at the main JMM office trailer prior to field screening for explosive compounds (see Appendix G). After the screening procedure, these samples were sent via Federal Express in two separate batches to the Southwest Research Institute in San Antonio, Texas.

Appendix B



TEST PIT AND SOIL BORING LOGS

B.1 INTRODUCTION

B.1.0.1. This appendix contains the following documentation of field activities at TEAD-N during the Phase I RFI:

- . Logs of all test pits excavated at the OB/OD Area (SWMU's 1, 1a, 1b, 1c, 1d)
- Soil Boring Logs for all soil borings completed at various SWMU's during the Phase I RFI

B.1.0.2. The excavation and soil boring logs in this appendix are arranged as follows:

- 1. Test Pit Logs for all SWMUs at the OB/OD Area (1, 1a, 1b, 1c, 1d)
- 2. Soil Boring Logs for all SWMU's at the OB/OD Area
- 3. Soil Boring Logs for the DRMO Storage Yard (SWMU 26)
- 4. Soil Boring Logs for the Drum Storage Areas (SWMU 29)
- 5. Soil Boring Logs for the Bomb Washout Building (SWMU 42)
- 6. The Soil Boring Log for the Stormwater Discharge Area (SWMU 45)

R.2 DESCRIPTION OF TEST PIT LOGS

B.2.0.1. The excavation test pit logs represent a schematic and written description of the soils encountered during excavation and sampling activities. The data at the top of the form designates the test pit number, the date and time of excavation and a brief description of the weather conditions at the time of excavation. Under this preliminary data is the diagrammatic representation of the completed pit; the soil stratigraphy, pit outline, and location of the collected soil samples within the pit are shown. Pit dimensions are shown both laterally and vertically. Following the diagram are the sample number designations of the collected soils and a USCS designation and description of the soil. Readings from the organic vapor detector used in conjunction with the sampling activities are also shown. Comments regarding debris encountered in the pit and any other information bearing on the respective excavation are recorded at the bottom of each test pit leg.

B.2.0.2. All the test pit logs from the Phase I RFI were completed by James personnel in the field. No office transcription or drafting has been done on the logs.

B.3 DESCRIPTION OF SOIL BORING LOGS

B.3.0.1. The soil boring logs centain depths below ground surface in a column down the center of the logsheet, and information on soil description, sample intervals, blow sounts, and organic vapor detector readings to the left and right of the depth. A small diagram showing the approximate borehole location appears in the upper left corner, and a graphic lithology log is shown to the left of the depth column.

B.3.0.2. As with the test pit logs, the soil boring logs were completed in the field by the shift on-site personnel.

SHOISIVID ROLAM		SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS	
	GRAVEL AND	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS. GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
COARSE GRAMED	GRAVELLY SOLS	(LITTLE OR NO FMES)	000	GP	POORLY GRADED GRAVELS. GRAVEL-SAND MIXTURES. LITTLE OR NO FINES
SOLS	MORE THAN 60% OF COARSE FRACTION	GRAVELS WITH FMES		GM	SILTY GRAVELS, GRAVEL- SAND-SILT MIXTURES
	RETAMED ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES		GC	CLAYEY GRAVELS, GRAVEL- SANO-CLAY MIXTURES
	SAND AND	CLEAN SAND		sw	WELL GRADED SAMDS, GRAVELLY SAMDS, LITTLE OR NO PINES
MORE THAN 60% OF MATERIAL IS LARGER	SANDY SOILS	(LITTLE OR NO FMES)		SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
THAN NO. 200 SIEVE SIZE	MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	BANDS WITH FINES		SM	SILTY SANDS, SAND-SILT MIXTURES
		(APPREGIABLE AMOUNT OF FINES)		sc	GLAYEY SANDS. SAND-GLAY MIXTURES
		LIQUID LIMIT LESS THAN SO		ML	MORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTIGITY
FINE GRAINED SOILS	SILTS AND GLAYS			CL	HORBANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OR LOW PLASTICITY
MORE THAN SOS				МН	MORGAMIC BILTS, MIGACEDUS OR DIATOMACEDUS PINE SAMD OR BILTY SOILS
OF MATERIAL IS SMALLER THAN NO. 200 SIEVE BIZE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN SO		СН	MOREANIC CLAYS OF NIEM PLASTICITY, FAT CLAYS
				ОН	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
М	GHLY ORGANIC SON	L8		PΤ	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORBANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BONDERLINE SOIL CLASSIFICATIONS.

FIGURE B-1

SOIL CLASSIFICATION CHART

UNIFIED SOIL CLASSIFICATION SYSTEM

TEST PIT EXCAVATION LOGS

TEST PIT LOG: TP	<u>c1 - 00 1 </u>	Krupicka / Z.F. Herbert
THE EYCAVATION REGAN	OVERCASE, ~ 60° F	, 5 app 5 - 2 st winds
Feet N.S Feet E.W of Survey Rel	= _{\(\nu\)}	
To the first of th	The state of the s	Orientation = E-w/ Total Depth = 5 Langth = 1/ Sample Et-el-601-1.5-2' Sample Et-el-601-4-5'

SAMPLE NO.	LOCATION (RL)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % se, % fl, meisture, plant.)	VOC METER READRIGS
EP-01-001	1.5-2'	SM	Derk brown (7.5 YR, 2/3) silly send with 50-40% fines, jose than 10% graves subjounded to expanyelar. large fine to making suppossible and graded soud, non plastic, dry, laws	. 0.1 pm
EP-01-00 I	4-5	5 <i>P</i>	Pale brown (18 KR 43) poorly gradu sand with no growl, less than 1670 sitt, moust, nonplostic, lease, very fine grained subjected sand.	O.199m

Comment:

Booker bulket Sample EP-61-001-2 contained large pieces of glass, brackets of bomb fine, while residue probably from bused magnesium or aluminum (und), fine bused arrange states.

Encounted repart

Encounted underneath debris and yet into undisturbed send

below 3 feet. No endeace of Jebris or hurning

from 3 to 5 feet

SWMU NO.:	D.C. Krupic	Ko / R.F. Hushut
DATE EXCAVATED:	5-29-92	
TIME EXCAVATION SEGAN:_	1045	/
WEATHER CONDITIONS:		5-10 mak seed winds
LOCATION OF TEST PIT REFI	ERENCE POINT:	
Feet N,S		
of Survey Rol.		
	W	
	2	
		•
- 12	10 S	and the second second
٤//		Orientation = East - West Total Depth = 3
		Length = 12
•		
	11	
		sample EP-01-002-2
まるインジェア	_ \	
夏」 イー・・レー	\	
E * J		
~ •]		
4		
10 —		Sample 80-01-002 - 3

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOL TYPE	SOIL DESCRIPTIONS (color, % gv, % ea, % fl, moisture, plact.)	VOC METER READNOS
EP-01-00	2 2'	5M	Dark pellowish brown (1942 3/4) silfy sand with 15 to 20% fines, no growl, nonplastic, alightly cohesive, subrawded, poorly graded sand	0.1
EP-01-06	v 3'	SP·SM	Brun to dock brown (10 th 4/3) party graded good gith silt, less than 10% times, no proal, substanded very fine to time sand, moist, non plastic, 10052 +0 slipptly cohesine, no bodding.	0.1
·	No		of debris or burning.	

D. C. Kengalle / R. E. Haber SWMU NO.: . FP-01-003 TEST PIT LOG: TP 30 MBY 1992 0836 DATE EXCAVATED: TIME EXCAVATION BEGAN:_ LOCATION OF TEST PIT REFERENCE POINT: Foot N.S _ Foot E.W _ APPECE . 12" of F.II on Surface of Survey Rel. E Orientation = = -W Total Depth = 5'
Longth = 16' From 1'BS & TDES' BLS-14" ASUNDONT Debris of Varying Size

packy Ruys, were from AMO. entest to Sange Ef-a-as-2 Box 8, AMOR BOMES; MOUNDONT DE A are justice ion soloway. 10 4BLS - Below land surface

> VOC METER READINGS

60.1 m

١٥٠١ سال

40.17m

SAMPLE LOCATION SAMPLE NO. (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % sa, % fi, moleture, plast.)
EP-01 -003-2' 2' 845	SP-SM	Dark followish brown (1042 44) poorly graded willy send with fees then 1090 fine yeard, 1090 fines
EP 01-003.5' 5' Bis	5M	dry, non-bus planticity, low consists 10000, yestempoter from soud. (non-busy quadrat (non-s-12) Very dark brown (10 the 2/2) sitty as
ABBES tos(?) - fibrus White material	741	with loss than 1690 fine stavel, 15% 28% fines experts to be planticity, the state of the state

There excountered include minn slag, bomb toil for rings, 20 mm amounts san can, 50 caliber amounts in can, fabricated harn from suffert rods, packing rings, whise off amountains. Orange-red accidation stains from 2 feet to 5 feethas.

At 4 feet below ground surface, ancountered fibrous object, possibly assessed a sheetes. Metal Pipe at 1.5 feet may teach to 1 feethas.

subangular fine sand

D.C. Kopala / R.F. Harbert SWALL NO.: 68-01-004 Swmu-1 Main Pemalitain TIME EXCAVATION BEGAN: 1045 WEATHER CONDITIONS: Sugge 5-10 men Brase to Set Sinkly LA LOCATION OF TEST PIT REPERENCE POINT: Feet NLS 0 to about 1 De trans (1047 20) Foot E.W. chry sith clay or clayer with when (unt-ex) mad sliffy and place, about 20 to 30% that it is if of Survey Ref. أشة التا Adoriation = No - So Total Dopth = 4.5-50 Length = 151 派长 Buried metal plate Mary large, could hot Tomore w/tackbe Comment: Abundant charges and said test debris-flowerbut debris Bus in pit. Debris extents >5'bebout Amount surface Christ depth of prt)

SAMPLE NO.	EAMPLE LOCATION (RL)	UBCS SOIL TYPE	SOIL DESCRIPTIONS (celer, % gr, % as. % fl, moisture, plant.)	VOC METER READWOR
Ef-orest3'	ъ'	ML	From (10416/4) sandy sit with 1835 Than 10 x qu ft and some Clay (me) Dry - Moish, low plasticity, low plasticity booth, and him poorly qual Solvan gular sand.	0.1 Nr
E401-0045	•	5M	Bark yellowish brown (1042 of sitty send with 100 than 15% that, 0% of grand Bry-moist, low planticity, low consistent loose, substand - subsamplers fine send. Forty grand	7, 0.1 11 a

Comments At appx. 12-14 inches below the ground surface hit refusal, large needed plate. Moved the back hos north of the northern edge of pit and trind to exceemb around it. Still refusal, mand north with of back has and lifted a large metal plate out of pit. Final depth of pit at the northern and was upso to 5 feet deep. It appears the trench was covered with metal plates than back Gilled. A lot of commende covered with metal sist rocket containers, possible rifte arounde Crutainers bandwin mate a number of survey. Tolvent Con, trush can (Sogal) and that from teach teach the process that the process the containers of the protection of the process that the teach teach the teach teach teach the teach teach

SWAN NO: 1 Main Depolition DE Knycke R.F. Habert	
TEST PIT LOG: TP EV -0 F 00 6	
DATE EXCAVATION BEGAN: 1345	
WEATHER CONDITIONS: JURY 5-10 MPM COST WIND, Shipty clary	
LOCATION OF TEST PIT REPERENCÉ POINT:	
Feet N.S	
Foot E.W	
of Survey Rel	
24/11	
المجلمة المعادن المجلمة المجلم	
Orientation = $42 \rightarrow 54$) Total Depth = $6.8^{\circ} - 3^{\circ}$ Length = 14°	
Orientation = NE -> Stu	
0 54 EA-01-005-3 DEPENDENT Total Depth = 6.8" - 3' Length = /4'	
40 Langth = 14"	
	i
	i
4 7	
10 1	
" Sefesa lavor .	
ser Comments	
	l
SAMPLE	
LOCATION USCS SOIL DESCRIPTIONS VOC METER	
AMPLE NO. (R.) SOIL TYPE (color, % gv, % se, % fl, melature, plast.) READNICE	
59-21-005-2-3' SP-5M Very durk brown (104R #2) poorly 20.1 8PM	
graded silty send with his then	
1570 fines 0% groud, dry-maint	
1570 fines 0% ground, dry-maint non-law planticity, but contributions for the contributions of the contributions o	
/ Marie - Maried - Submitted Very time - Time - Final	
P-01-005-7 . SM Dark aroun (7.5 MR 3/3) sitty sand with <0.11	4-
15-20% diese At and day an addit been	T
Aller Ny Both 3, ft 1 and 1 and 1 and 1	
19-01-005-7 . SM Bark brown (7.5 1/2 3/3) styly sand with 20.1 15-20% times and from the to coarse but mostly fine sand. The coarse but mostly fine sand.	_
wind loss in of this at fined buried drivers, pathol lid aff me which he beautet. Com	ر
	-

Original location of this pet timed burned observes, parties 10 Part me suffection beautiff. Common to the state that the properties to Parties of the County making and the state of the superior of the state of the superior of the state of the superior o

D.C. Koyath / 12.F. Har you Main Demolition SWMU NO.: _ TEST PIT LOG: TP. EP-01-00L 5-30-42 DATE EXCAVATED:_ 1505 TIME EXCAVATION BEGAN: .. variable 5-10 MAH winds slightly co WEATHER CONDITIONS: 5/MAY LOCATION OF TEST PIT REFERENCE POINT: Feet N,8 Foot E,W Dark brown (1047.36) dry of Survey Rel. sillycley or clayer all to the the Sand (more), and a silly mad Pastes, along Lo-sall A well ideal layer = 1" + larde. Topulatish makes Orientation =55-NW Total Depth = 5.5' Longth = 13.0 Depth in Feel EP-01-006-8-55

SAMPLE LOCATION (R.)	USCS SOIL TYPE	SOL DESCRIPTIONS (color, % gv, % se, % fl, meleture, plact.)	VOC METER READINGS
EP-01-06-3'	SP-SM	Dark yellowish brown (1042 3/4) poorly graded 5/44 sand w/44 5-12 % fires 0 % 1000 for for for fire for sand plasticity, law according fortal subramed fully fire to fire sand	0.1 fla
EP-01-006 5-5.5°	5M	Light yeslands brown (2.5 1/2 c/4) silly sand with ILL fines, 0% grand, dry, rea-plastic, somewhater of loose, subrambels ray fine to fine sand	0.1 11m

below I fost. Some minor fragments described grobably migrated from the surface.



SWMU NO.:	Krupicka and F.F. Heckert	
TEST PIT LOG: TP		•
THE EXCAVATION REGAN: /565		
WEATHER CONDITIONS: 50mm 5-/	Omph somethe winds, partly co	
Foot N.S	Davik brown	m (layr 3/3) dry
of Survey Ref		relayen silf (cc-mc)
of survey had	W and	had stiff much place, by to boy's and Horson Soil
	platy: C	Layey ML Soll
H		
	Orientation = 52	-NW
SE //	Total Depth = 5	.5'
	Length = /4'	
	= 7	
	Little=	B Herizon
		TD; no burn met,
of 6 put Froble	STRUCTUR	· 1
	Suple 8P-01-007 -5-5.5	
·1 -/	·	
10	Sample 61-007-3-25'	
•		
SAMPLE LOCATION USCS	SOIL DESCRIPTIONS	VOC METER
RAMPLE NO. (R.) SOIL TYPE	(color, % gv, % ss, % fl, moisture, plast.)	READWIGE
P-01-007- 3'-35' SM-ML	Light yellowish brown (2.542 43)	. () . (00-
1 01 07 0 30	sendy with with 5-1090 clay, ago	meinty 0.1 ppm
5	processing 50% very fine sand,	in. T. 4. 5 60
N	less than 590 groupl, dry salest out to medium plasticity, low choise	,, i
	adventaly cohesive, subramped sea	₹
FP-01-007-57-5-5 SM-ML	eight yellowish brown (25-49 6/2)	inolog
	sandy sift will 5-1590 alay , 7500	10-545 C) / AO

comment: NO Evidence of Provious Disposel / Burn Activities.



Demo D.C. Krunika RE Hatest Main SWMU NO .: _ EP-01-008 TEST PIT LOG: TP. 5-31-92 DATE EXCAVATED:_ 0920 TIME EXCAVATION BEGAN:. WEATHER CONDITIONS: SUARY Slight NE LIZEZE LOCATION OF TEST PIT REFERENCE POINTS O to about I' box dry Dr. brown (layor 3/2) dry silly clay exclayed Feet EW. of Survey Ret. Sit with sand (me-cy) made stiff, mad. plaste, about 20 to 20 format is to visional. East- west Orientation a Total Depth = ,7 / Length = 20 Eart , burned residue patches 3 Z_sample at 7' Depth in Fee distinct clay layer sample at 35

SAMPLE LOCATION SAMPLE NO. (ft.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % as, % fi, moleture, plast.)	VOC METER READINGS
EP-01-008-3'-3'2'	Sm-mL	Very dl. Bound 10 ye 4), moist, war- plactic Sity Sout w/20% five to med. Gravel and 15% fixes. Sott, Lose; sub-rounded grows.	.00 span

EP-01-008-7' CL-ML Lt. yellowsh Brown (2.5 y 44) Most,

ST:H, Sanly Silly Clay with a 20% . 00 ppon

five to very five Small, sub-rounded.

Mad. Cyllowic of high Photocoty.

SME was on the

commons first foot is play A Zane

At 25' BES encountered burn zone - 37 mm shell CASINGED, gar on ALL T- Valve, misself. Sheet metal + channel ison, piece & 55 - gal. Drum, abundant burn stag.

At 7' amonto sod distinct clay layer, distinctive Lype Blood Gray
TEAD-H PHASE IRFI (54 7/1).

Demo. DE Kindieks/R.F Heibert Main SWMU NO .: EP-01- CC9 TEST PIT LOG: TP_ 5-21-92 DATE EXCAVATED: TIME EXCAVATION BEGAN: __________ E svery 5-10 aph WEATHER CONDITIONS: ____C/C4/C LOCATION OF TEST PIT REFERENCE POINT: e to about 0.5' dk brown (1047 3/2) Foot N.S day sitty clay or clay by sitt with first sand (mich), mad shift mad shift plashe, about 20-20 pomod flats. Dack a thereas Soils Foot E,W. of Survey Ret. West baseau) le" LT. Calacan Orientation = E-W Total Depth = 67 East Length = 12 Depth in Fee LILHTER R. Horizon - STOUTURE REST Black, Russes Aven, Debrik Cumple EP-01-009- 1.5'-2' . . Composite plong Laught of Treach from 1.5'-2' BES.

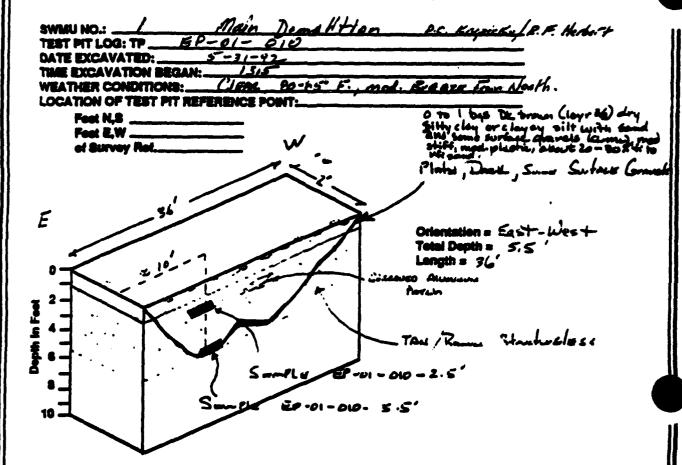
SAMPLE LOCATION SAMPLE NO. (ft.)	USCS SOIL TYPE	SOIL DESCRIPTIONS VOC M (color, % gv, % sa, % fl, moisture, plast.) READI	
EP-c1-001 - 1.5'-2'	SM	Southern (1989 8/9) a Hu	o Ilm

Black (MYR 2/1) sitty sand with 0.00 ppm EP-41-001-4.5'-5.5' 5M to median gravel, most exits, moderately placetic, subangular to subangular to subangular to fine sent

comments petric encountered 1' BGS; chain steel place, myle irons, pipe fittings, deteriorated aluminum as white-bluich exidized aluminum screens; From 2-5 BGS machine shop refuse such as metal plates, deteriorated abusinam screens,

BosoBelow ground surface

vfe very fine m z medium



SAMPLE LOCATION (R.)	SOIL TYPE	SOIL DESCRIPTIONS (color, % gr, % se, % fi, moisture, plast.)	VOC METER READWOR
EP-01-010 - 2.5'	ML	Very Dr. Grappel Bom (10 pt 2) day, mast till, low to masur photosomy, silt of source. Fixes = 500-600,	0.00 11
]		w/wo Grand.	

EP-01-010-5.5'

ML

Due Brun (10 YR 313), MOST, moderately ST: H & H W/NO games and 102-30% Very

0.00 pm

Comment:

game and 102-30% very Fire Sano, 60% - 70% lines. Low prostruity.

NO major Dobne found in tranch - some miner ordines soluminum debris - mosty Tom to whate ASH.

	Main	Dam . 1-11.	and the second day	
SWMU NO.:	EP-01 -0	Vena II Man	D.C. K-yrika/P.	HEMMY
	61-01-01			
DATE EXCAVATED:	<u>5-31-9</u>	<u> </u>	هوالسمالية المالية ميالسي المهي	
TIME EXCAVATION BEG	AN: 1795	0 000	10 11 116	1
WEATHER CONDITIONS	CRAT B	0-25 /-	10-15 mgh NEW	inds
LOCATION OF TEST PIT	REPERENCE POR	П		
Feet N,S				
Foot E,W				
of Survey Ref			•	
Structure less Gilty So			Orientation = 6.5t - 1 Total Depth = 6.5 Length = 17 Menuovar Pish = Depth = Depth = 17 Sample 6'-6'2', juins make. Hydroca	wyst: Whate ost Ralaws

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE	SCIL DESCRIPTIONS (color, % gv, % se, % fl, moisture, pisst.)	VOC METER READINGS
EP-01-011	36	ASH +	tory dark gray ash (1.5 TR \$11) in burn zone containing White, blue, black, orange burn product co Nominard sal product to decising.	0.0 Hr

EP-01-011 6-6.5 5M

MOIST, NON-PLASTIC Sity SANO; & 20% Fines, No grand. Loss; Grandouses AN OUR Show on

6.4 pm

Comment: ABULICAUT Bun Diber: ASH, Mathley & Palar Frees, Pretty Con Lite, Botts, + Mescett.

Demolition ac Knowle (2. F. Hosbert SWMU NO.: TEST PIT LOG: TP_ DATE EXCAVATED: 5-31 - 72 TIME EXCAVATION BEGAN: _ WEATHER CONDITIONS: CLOUDY 5-10 mest NE Words LOCATION OF TEST PIT REFERENCE POINT: Foot N.S Foot E.W. of Survey Ret. Orientation = Northeast - southus Total Depth = 4.5 NE Longth = corrobed about lepth to Fee sample EP-01-012-115' sample EP-01-012-4-45 scoped from 2'-8' from swind of pit SAMPLE LOCATION VOC METER SOIL DESCRIPTIONS BOIL TYPE BAMPLE NO. (color, % gv, % es, % il, melsture, plast.) READNO (R.) EP-01-0R - 2' Dock Graph Bran (1042 42), day, ML 0.00 1 Soundy SIT, 50% -60% fires, wiplo grovel. Forb Verpre Sono; Lando Mes. Madristy, w/ord. 54 Alvess. part - Godol, sit-Rule EP-01-012 9-45 CL-ML 0,00 1 Light yellowish brown (2512 42), must, silly alay with 15% very fine, 20% substanted sand no grand. Low to moderate planticity, moderately sliff to shiff. At 1.5 below ground sorface observed white patch, probably cornell alvaison, Also, scattered orange oxidation stains from 0.5 to 1.5 acs

PROJECT NO. 2942 0120

SWMU NO.:	THE DONO D.C. Kropick	DE Herbert
TEST PIT LOG: TPZA -A	1-613	
DATE EXCAVATED:	92	
TIME ENORYMINING SERVICE	0844 ear trung inlinds 15-20m	
WEATHER CONDITIONS:		
Feet E,W	O to about 1' bas silty along the	De brown (love s/s) dry with with sand (preced) mail
of Survey Ref	W_ platy soil mixed with	I'me to medium
1	subsequent to s	1000 pole of grove /
	ast luyer	- EP-01-013-1
1	scaple tulion	clay pit length at I
	Orientation =	
ريان المالية ا	المراول محتنات المراول	\$.5 7
	المناز المالة المحترب	
E 4-	\ Action	
	Continu	
e district		
By 4	A CASTA	
The state of the s		ومند د ما
Hood of	Sands	y crise
To to the state of	Sample 25 25	off scouped from
1 1	Sample Ef-01-C13-5.5' and 8 to 11 feet from	ept scouped from East end of
1 1	Sample 25 25	ept scouped from East end of
10	Sample Ef-01-C13-5.5' and 8 to 11 feet from	ept scouped from East end of
SAMPLE	Sample , RA Ef-01-C13-5.5' and 8 to 11 feet from pit from t.5 to	ept scouped from East end of 5.5 deep.
SAMPLE LOCATION US SAMPLE NO. (R.) SOIL	Sample, AR Ef-01-013-5.5 an B to 11 feet from pit from 4.5 to SOIL DESCRIPTIONS	ept scouped from East end of 5.5 deep. VOC METER
SAMPLE LOCATION US SOIL	Sample Ef-01-013-5:5 B to 11 feet from pit from 7.5 to CS SOIL DESCRIPTIONS TYPE (color, % gr, % sa, % fl, moisture, pic	Ent end of S.S deep. VOC METER READMOR
SAMPLE LOCATION US	Sample Ef-01-C13-5.5 an 8 to 11 feet from pit from t.5 to SOIL DESCRIPTIONS TYPE (color, % gr, % as, % 8, moisture, plants) Black (2,5", 2/c) Ash	ept scouped from East end of 5.5 deep. VOC METER
SAMPLE LOCATION US SOIL	Sample Ef-01-013-5.5 and 8 to 11 feet from pit from t.5 to BCS SOIL DESCRIPTIONS (color, % gv, % on, % 8, moissure, pla in Black (2,5 y 2/c) Ash lagar of buth lane	Ent end of S.S deep. VOC METER READMON 0.2 11 th
SAMPLE LOCATION US SOIL	Sample Ef-01-013-5.5 and 8 to 11 feet from pit from t.5 to SCS SCS SCS SCS SCS SCS SCS S	ept scorped from East and of S.S deep. VOC METER READMON O. 2 ffm
SAMPLE LOCATION US SOIL	Sample Ef-01-C13-5:5 B to 11 feet from pit from 7.5 to SOL DESCRIPTIONS TYPE (color, % gv, % ea. % 8, moisture, pla ih Black (2:5" 2/c) Ash layer of both 2ane with 30-40% fine to make gradel subangular to substitute gradel subangular to substitute	Ent end of Ent end of S.S deep. VOC METER MEADONOS O, 2 ffm
SAMPLE LOCATION US SOIL A'S	Sample Ef-01-013-5.5 and B to 11 feet from pit from to to Pit from to to SOIL DESCRIPTIONS TYPE (color, % gr, % on, % 8, moisture, pie ih Black (Z,5 V 2/C) Ash layer of bush zone with 30-4090 fine to making gravel subangular to substitute No nartine soil to closeity	ept scouped from Eart end of Sis deep. VOC METER READONOS O. 2 ffm madel, to burning.
SAMPLE LOCATION US SOIL A'S	Sample Ef-01-013-5.5 and 8 to 11 feet from pit from t.5 to SOL DESCRIPTIONS IN Black (2,5 y 2/c) Ash lager of both some with 30-469 fine to making gravel submy other to closery Allowish brown (10 4R 51A)	ept scouped from East end of sis deep. VOC METER MEADINGS O. 2 ffm and of the homing. Soft
SAMPLE LOCATION US SOIL	Sample Ef-01-013-5.5 and 8 to 11 feet from pit from t.5 to SOL DESCRIPTIONS IN Black (2,5 y 2/c) Ash lager of both some with 30-469 fine to making gravel submy other to closery Allowish brown (10 4R 51A)	ept scouped from East end of sis deep. VOC METER MEADINGS O. 2 ffm and of the homing. Soft
SAMPLE LOCATION US SOIL A'S	Sample Ef-01-013-5.5 and 8 to 11 feet from pit from t.5 to SOL DESCRIPTIONS IN Black (2,5 y 2/c) Ash lager of both some with 30-469 fine to making gravel submy other to closery Allowish brown (10 4R 51A)	ept scouped from East end of sis deep. VOC METER MEADINGS O. 2 ffm and of the homing. Soft
SAMPLE LOCATION US SOIL A'S	Sample Ef-01-013-5.5 and 8 to 11 feet from pit from t.5 to SOL DESCRIPTIONS IN Black (2,5 y 2/c) Ash lager of both some with 30-469 fine to making gravel submy other to closery Allowish brown (10 4R 51A)	ept scouped from East end of sis deep. VOC METER MEADINGS O. 2 ffm and of the homing. Soft
SAMPLE LOCATION US SOIL A'S	Sample Ef-01-013-5.5 and B to 11 feet from pit from to to Pit from to to SOIL DESCRIPTIONS TYPE (color, % gr, % on, % 8, moisture, pie ih Black (Z,5 V 2/C) Ash layer of bush zone with 30-4090 fine to making gravel subangular to substitute No nartine soil to closeity	ept scouped from East end of sis deep. VOC METER MEADINGS O. 2 ffm and of the homing. Soft
SAMPLE LOCATION US SOIL Di-c1-013 / As	Sample Ef-01-C13-5.5 an B to 11 feet from pit from t.5 to BCS TYPE (color, % gr, % on, % 8, moisture, pla In get it both lane with 30-46% fine to main gravel submenter to subsect Ab native soil to closery No native soil to closery reflection, loose, 30-cit, for sapanyatur - subranded fine s silty sund - managementer no sado-ortez	East end of Sis deep. VOC METER READENCE O. 2 11th madel to burning. seft; ines, 0.0 pm sand in 2 1000
SAMPLE LOCATION US SOIL Di-c1-013 / As	Sample Ef-01-C13-5.5 an B to 11 feet from pit from t.5 to BCS TYPE (color, % gr, % on, % 8, moisture, pla In get it both lane with 30-46% fine to main gravel submenter to subsect Ab native soil to closery No native soil to closery reflection, loose, 30-cit, for sapanyatur - subranded fine s silty sund - managementer no sado-ortez	East end of Sis deep. VOC METER READENCE O. 2 11th madel to burning. seft; ines, 0.0 pm sand in 2 1000
SAMPLE LOCATION US SOIL Di-c1-013 / As	Sample Ef-01-013-5.5 and 8 to 11 feet from pit from t.5 to SOL DESCRIPTIONS IN Black (2,5 y 2/c) Ash lager of both some with 30-469 fine to making gravel submy other to closery Allowish brown (10 4R 51A)	East end of Sis deep. VOC METER READENCE O. 2 11th madel to burning. seft; ines, 0.0 pm sand in 2 1000

PROJECT NO. 2942-0120

owner No.	مرا	D.C. Kapiel	1 R.F. Horbert	
SWMU NO.:	LP-4-014	/		
DATE EXCAVATED:	6-1-92			
TIME EXCAVATION BE				
WEATHER CONDITION		5-15 age Prod	or hom No.	
LOCATION OF TEST P		· · · · · · ·		
	IL WELFINEMOP LAM	40	- 1 fe bas alk trous	. (lour sh) da
Foot N,S	-		مراعد معمله مدر	Think sand an
Feet E,W	اسیاسی المی المی اسی این بیری	مسا محر ر	illy clay are layey s ne-ce), mod. Skiff ha	ed plastic of texti
of Survey Ref	4//		land	- 1 · u-
		£ ,\$	vefore to 1' 84: D	ey, Platy, well
		2'	rasso genel.	
			•	•
ر ـ ا	3 Sample			
	#R-61-00	-3'-1	Orientation = 5 W -	NE
	سا : د در	المستعذب	Total Depth = 8	_
SUL	S. The state of th	: H	Length = /3	
0-	2-2-12-7	ブノト		
	X	(7.		
- 2 -	30 m	3 / 		
			I'BLS TO TD	CLAMI DV
E 4.1.				
ラ ゴン - 1 X ・	10 m		Benne Silh Class	~/ Smo.
ま・1 ~ 12				
8 1 1	ر در	$\boldsymbol{\times}$		
			2 2- 12	J Dr
	Saulte	acea of	Rus Pit Dia	SØ FAI
10 7	-01-0N-72		•	•
	2-8			

SAMPLE NO.	LOCATION (RL)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % sa, % fl, moleture, plast.)	VOC METER READINGS
EP-01-014 -		CL-ML	Dead Brown (7.542 312), WET, STIFF, MED. Phostic Silty Clay with Some; with 20% from to Very First Sub-rounded Signed, From Graded. Named To	O.3 pp.
EP-OV-OM		CL-ML	Drak Brown (7.5 ye 2/3), wet, shill, low prostresty Silly Chy w 150% for the Very Frie, party-gradel, sub-rounded Simo . Leas Clay thou 3'-4'.	0.1 grm
Comment: F	vses and , ts; (files, 119-19 7	mucell. Motel ek.); Smull	l debais. Sul Controls reboulant cen or Commisses, Bross 185:due (2000) Su pomber-Trols Fuses.	lisa metal , me

PROJECT NO. 2942-0120

SAMPLE

SWMU NO.: Main Deachtion Political Hollars TEST PIT LOG: TPEl-of- C15 DATE EXCAVATED: 6-1-92 TIME EXCAVATION BEGAN: 15 22 WEATHER CONDITIONS: 6-1-92 LOCATION OF TEST PIT REFERENCE POINT Foot N.S
DATE EXCAVATED: 6-1-92 TIME EXCAVATION BEGAN: 15 2.2 WEATHER CONDITIONS: 6-1-92 5-16 milk wind Titles NE LOCATION OF TEST PIT REFERENCE POINT: Foot N.8 Foot E.W of Survey Ref. Desire, Pain, (A-Harzan!) Sail,
TIME EXCAVATION BEGAN: 1522 WEATHER CONDITIONS: Clay Stany 5-16 mile The NE LOCATION OF TEST PIT REFERENCE POINT Foot N.S Foot E.W of Survey Ref. Destroy Flora, (A-House.) Sail,
WEATHER CONDITIONS: clay stary 3-16 mile 777 with 777 wo NE LOCATION OF TEST PIT REFERENCE POINT Foot N.S Foot E.W of Survey Ref. Destroy From, (A-Hours!) Sail,
Foot N.S On to I feet be Ok brown (ley " 3/4 Foot E.W One silty clay or
of Survey Rel
of Survey Rel
of Survey Rel by Dather, Plan, (A-Harzan!) Sail,
Deste, Plates (A-Harran!) Sally w/10%- 15% Const.
1 10% - 15% Comet.
* 5
Orientation = East- West
Total Depth = 7
Mourae Evere, But None Pauc, one
mem Debrit - Parity E. Sup of Land
Sample EP-01 - 015 - 6.5'-7'
£ 4-
Edinburger out Code
Tous, Structureless silts, Souls
CITIE.
Saute 50-01-015-2.5'-4.5"
10
SAMPLE
LOCATION LIBCE SOIL DESCRIPTIONS VCC METER
AMPLE NO. (R.) SOIL TYPE (color, % gv, % se, % fl, moisture, plant) READNOS
P-01-015-3.5-4.5. CL-ML Lyst yellowish brown (LOYR 44) 0.1 A

rended soul, moist, makes notion photicity, and notify stiff, moist, no gravel. Draye in oxidized fragments abundant in sample bowl. EP-01-015 - 65-7 CL-ML Light Dave Zo- (2.54 5%) sith day =/150-Zo's Very Fine granes Sub-Roundes Saus.

No general. Moist, mes. Planterity, mes. STITE

Saus a Peoply Grasson; Senteres Octoizes passedes.

If m

No ashes or avidence - of burning. Drange exidetions stains are scattered on pit walls and appear to have born busied entrance probably burned chambers.

Items encountered include B1 mm memberfiers, bomb more flags, and cluster bomb fixe plates. Also unidentificable decomposed ordnance.

EAD-N PHASE I RFI

POLECT NO.

D.C. Krupicka/ P.F. Herbert SWMU NO.: EP-01-016 TEST PIT LOG: TP DATE EXCAVATED: 6-1-92 TIME EXCAVATION BEGAN:. winds 5 WEATHER CONDITIONS: GROW SINGLY LOCATION OF TEST PIT REFERENCE POINT WEATHER CONDITIONS:_ Feet N.S Feet E.W. of Survey Ret. sample 87-01-011-0-6 e to mad growel on surf ady pour to 6" 16 with with Total Depth = 5 Length = /9 sample ET-01-016- 9.5.5 pit profile

SAMPLE NO.	LOCATION (ft.)	USCS SOIL TYPE	SOR DESCRIPTIONS (color, % gv, % es. % fl, moisture, plant.)	VOC METER READRIGE
FP-N-0K -	0-01-016 - 0-6" 000 ++W	COS 6444 Sign Son	Grapsh Brus (10 ye 42) posty - quadred Sand with Silt; low to materially. plastic, materially STIFF, a Sul-rounded. 306	0.1 pm
			fires, no grand.	

Ep-01-04-4'-5' ML White-olive bram (2.54 5/2)
Sandy S.LT up 184 Clays

po grand. de photouty, makedos stiff. 25% 0.2 /

New Five Sid-rould Stand, pool-goods.

No evidence of burning, buried debris.

D. C. Krusicka / E.F. Hote-1 SWMU NO .: . 69-01-817 6-2-92 TEST PIT LOG: TP_ DATE EXCAVATED:_ 0955 THE EXCAVATION BEGAN:_ WEATHER CONDITIONS: Lien - Sieny Winds 10-20 Will The SW LOCATION OF TEST PIT REFERENCE POINT: Feet N.S Foot E.W. of Survey Ref. ٤ Sough El-01-017-07
schoped from just below
suffice 15 / BGrs
from 3' h 2 from west and Orientation = East - West Total Depth = 5 Length = 22 posit -EP-01-017-5

SAMPLE NO.	LOCATION (RL)	USCS SOIL TYPE	SOIL DESCRIPTIONS (celer, % gv, % ea, % fl, meleture, plant.)	VOC MET
EP-61- U17 -	. 0-1	ML-SM	Brown (104R 5/5) siley the standy sitt with 1870 clay. Dry, low-mad planticity, 100 mad stiff, No grand, soprovated they fine to fine wand, party from the fine wand,	14.
1				_

EP-01-017-5' SM

Light office brown (2.57 siff) sifty Not taken send with no gravel; low plasticity, low stiffness, sistemated flue to very line send, moist, people quality.

Comment:

No burn debris observed. Misor spots of orange oxidation stains from 1 to 3 feet BGS.

Below 3 teet structuroless undisturbed soil. See sample deciption, or own coloff switch failed; backup over was in process TEAD-N PHASE IRFI OF charging.

POJECTNO. D. ... JIE

	C. Paravila / V. P. Harbert
TEST PIT LOG: TP	C. Kongress & R.F. Habert
DATE EXCAVATED: 4-2-12	
TIME EXCAVATION SEGAN: 1/30 WEATHER CONDITIONS: Rich is classed	95-90° winds 10 mph NE
LOCATION OF TEST PIT REFERENCE POINT	
Foot N.S	
Feet E,W	Ok brown elever self or silfy clay (merce) with som of the fortes
ω	clay (ML/CL) with som of 18 apriles
	Dreta (A. Bersen) Plats Silve
14	Orientation = East - West
	Total Depth = 7%
1.6	Longth = 14" +
	54-
3 2 -	AND A METEL Debute - Ach Vacione
2 3	
F	Tou Couls Sit (B-ilo.en), Steammer
	Zer
	Same #-0-018-4'-4.5'
"	Szalle 8-01-08-7'
Reminer of	55-4d. Dava
SAMPLE LOCATION USCS	SOIL DESCRIPTIONS VOC METER
LOCATION USCS SAMPLE NO. (R.) SOIL TYPE (c	olor, % gv, % ea, % fl, moleture, plast.) READONGS
BAMPLE NO. (R.) USCS SOIL TYPE (O	plor, % gr, % sa, % fl, moleture, plant.) READRIGE Pay Black (5 Y 2.5/) MOIST, Nov.
BAMPLE NO. (R.) BAMPLE NO. (R.) EP-01-018 - 4'-4.5' ASH S.L G.	olor, % gr, % ea, % R, moleture, plant.) MEADENCE MASSIC (54 2.5%) MOIST, MAN- MASSIC ASH Soil with Mundair Hot Taken
BAMPLE NO. (R.) LOCATION (R.) SOIL TYPE (6) EP-61-018 - 4'-4.5' ASH-Soil P	Medical (54 2.5%) Moisting, plant.) Medical (54 2.5%) Moisting. Medical (54 2.5%) Moisting. Medical Declaration Asset Soil O.D ppm Declaration Asset Soil O.D ppm
EP-01-018 - 4'-4.5' ASH Soil TYPE (0)	Mor. 4 gr. 4 sa. 4 R. moleture, plant.) MEADOIGE MASH Self with relation So'd) ASH RESTONE. Soil Companyable may many sono-
BAMPLE NO. (R.) EP-01-018 - 4'-4.5' ASH-Soil GO P	Mor. 4 gr. 4 sa. 4 R. moleture, plant.) MEADOIGE MASH Self with relation So'd) ASH RESTONE. Soil Companyable may many sono-
EP-01-018 - 4'-4.5' ASH Soil TYPE (o	Mor. 46 gr., 46 ma. 46 R. moleture, plant.) MEADENCE MATTER (547 2.5%) MOIST, MONEY, MONEY MATTER ASSAL W. H. Moleture MEADENCE MEA
BAMPLE NO. (R.) BOL TYPE (G.) EP-01-018 - 4'-4.5' ASH S.I. G. S.I.	Menter (5 y 2.5/) Moist, Menter Production Plant December (5 y 2.5/) Moist, Mount Month Tolker (50') ASH Soil with Mundant (50') ASH Residue. Soil (50) Production (50) Produc
EP-01-018-4'-4.5' Ash Sail Bi	Mor, 46 gr., 46 see, 46 R. moleture, plant.) Medic (5 y 2.5/) Moist, New- Mostic ASSH Seel with reludent Solo) ASH Rectore. Soil Companies to me many Sono- More President, self-rented. More Presidents Mostic President
EP-01-018-4'-4.5' Ash Sail Bi	Mor. 46 gr., 46 ca., 46 R., motorino, plant.) Medic (5 y 2.5/) Moist, Man. Mostic Ashi Sail with Mundair Mostic Plant Couteness 7/30 and moist and mostic Plant Couteness 7/30 and moist Mostic Ashi Sail w/Man. Med (5 y 2.5/2) 1 Moist, Man. Medic Ashi Sail w/Man. Medic
EP-01-018-4'-4.5' ASA Soil TYPE (C.) EP-01-018-4'-4.5' ASA Soil P. EP-01-018-4'-4.5' Ash Soil Bit EP-01-018-4'-4.5' Ash Soil Bit EP-01-018-6.5'-7' Ash Soil Bit EP-018-6.5'-7' B	MOT, % 91, % 00, % 8, moletime, plant.) MEADENCE MATTER (57 2.5/) MOIST, MOVE MOSTIC ASH SOIL with Mindows SO'O) ASH RECTOR. SOIL Companies to more money Sono- Companies to more money of Money Companies to more companies to more Companies to more more Companies to more Companie
EP-01-018-4'-4.5' ASH Soil PARTIES OF SEP-01-018 Comment: Ep-01-018 Comments 30	MOT, 40 gr., 40 ca., 40 R., Molecure, place.) MASSIC (57 2-5/) MOIST, MOUST, MOY TINKER. SO'O) MOIN RESTONE. SOIL Companies and much sono— Companies and contracts 7/30 and much sono Companies and contracts 7/30 and much sono Companies and contracts 7/30 and much sono Companies and contracts of the co
EP-01-018-4'-4.5' Ash Sail Bit	MOR, to gr, to as, to B., molecure, plant.) MEADENCE MATTER (57 2.5/) MOIST, MOUL MATTER (57 2.5/) MOIST, MOUL MORE ASH SOIL with Mindows Dec. MORE ASH SOIL with Mindows MORE PARK CONTENTS 7/30 AND AND MORE (57 2.5/2) I MOIST, MAN - MATTER CARS, MARGINE VAN MATTER CARS, MARGINE VAN MORE TO AND MONTHS AND MARGINES, MOIST AND MARGINES, Sound products bandless, MOIST AND MARGINES, SOUND AND MARGINES, MOIST AND MARGINES, MOI
EP-01-018-4'-4.5' Ash Soil Bill Sin	MOT, to go, to see, to R. Molecure, plant.) MEADENCE MATTER (54 2.5/) MOIST, MOUL MOSTIC ASH SOIL with Mindent Companyable mor much Sono- MONEY PARTICULE. SOIL Companyable mor much Sono- MONEY PARTICULES TO SONOMAN MONEY PARTICULES TO SONOMAN MONEY ASH SOIL w/Abunded Ash MATTER (54 2.5/) I MOIST, MAN- MOSTIC ASHY SOIL w/Abunded Ash MONEY AND MONEY CARROLL SONOMAN MONEY AND CARROLL SONOMAN MONEY AND CARROLL SONOMAN MONEY AND CARROLL SONOMAN MONEY FOR SONOMAN MONEY S
EP-01-018-4"-4.5" ASH Sil Gi EP-01-018-4"-4.5" ASH Sil Gi Sil TYPE (O Sil TYPE (MOT, 46 gs, 46 as, 46 as, molecume, plant.) MEADENCE MARKE (54 2.5/) MOIST, MOUL MOSTIC ASH SOIL with Abudant SO'O) ASH RECTOUR. SOIL Composed to most month sono- 25, pount, - mild, seb-roused. MARKE Park Contracts 7/30 and mo MARKE Ashy Soil w/Abudat Ash MARKE Ashy Soil MARKE Ashy Soi
EP-01-018-4'-4.5' ASH S.I. G. S.	MOT, 46 gs, 46 as, 46 as, molecume, plant.) MEADENCE MARKE (54 2.5/) MOIST, MOUL MOSTIC ASH SOIL with Abudant SO'O) ASH RECTOUR. SOIL Composed to most month sono- 25, pount, - mild, seb-roused. MARKE Park Contracts 7/30 and mo MARKE Ashy Soil w/Abudat Ash MARKE Ashy Soil MARKE Ashy Soi
EP-01-018-4"-4.5" ASH Sil Gi EP-01-018-4"-4.5" ASH Sil Gi Sil TYPE (O Sil TYPE (MOT, to go, to see, to R. Molecure, plant.) MEADENCE MATTER (54 2.5/) MOIST, MOUL MOSTIC ASH SOIL with Mindent Companyable mor much Sono- MONEY PARTICULE. SOIL Companyable mor much Sono- MONEY PARTICULES TO SONOMAN MONEY PARTICULES TO SONOMAN MONEY ASH SOIL w/Abunded Ash MATTER (54 2.5/) I MOIST, MAN- MOSTIC ASHY SOIL w/Abunded Ash MONEY AND MONEY CARROLL SONOMAN MONEY AND CARROLL SONOMAN MONEY AND CARROLL SONOMAN MONEY AND CARROLL SONOMAN MONEY FOR SONOMAN MONEY S

PROJECT NO. 2042 0120

D.C. Krusicka R.F. Herbert SWMU NO.: ... TEST PIT LOG: TP_ DATE EXCAVATED: _ . 60° F. winds 10-20 mb Sil WEATHER CONDITIONS: Clear LOCATION OF TEST PIT REFERENCE POINT: Feet N,S Foot E.W. of Survey Ret 12" = Fell Det. uska) soca / 🖘 cai. Bega - Rillets, 90m. Orientation = East - West Total Depth = 8' -Sample EP-01-019-1.5'-2' - Brow Fires, Halber, mecall. Sanda 68-01-019 - 7.5'-8' District Bloodings Author Orienza Labor Relational Fill; District Transch Blood paidings layer, No feel de bots observed at 8.0 to 1.

SAMPLE NO.	LOCATION (RL)	USCS SOIL TYPE		ACC METER READINGS
El-01-019	15-2'	SM	very desk grayish brown (16 4R #4) sitty sand with 10 to 20%; fines, no gravel. Manplastic, loose, moist, very fine to fine subranded to subang-lor sand, poorly graded.	0.0 pm
£?-01 - 019	7.5-8	SM	Brown (1842 5/7) silfy send with 20-2070 fines, no gravel. Nonphastic fuce, maist, very fine to fine, subranded poorly graded send.	0.0 fpm

Comment:

Items encountered at the first comple from low-e'were I 90 mm artillary shell, 30 and 50 mm contributes and butters probably discharged elsewhere then buried here

A second distinct debris same at about 4-6 feet
BGS containing brass fuses, hinges and metallia Lebris.
Below this debris is a distinct blue-white andicated below
TEAD-HPHASEIRM layer about 6 to 8 inches three. Escapeted below
exidation layer and collected sample from 7.5 to 8 page

PROJECT NO. 2842 0120

SWMU NO.:	D.C. Kengelo/R.F. Helet
	1 - 020 I
DATE EXCAVATED: 4-3	030
	south Breeze 5-10-d.
LOCATION OF TEST PIT REFERENCE	
Feet N,8	E with sand appl 0-1 bys.
Foot E,W	be fought sound and And bear
of Survey Rel	with some approved.
	Plats Sal -/ Retlets
	THE SAL OF RETS
	(Continues Alandaus Nails) See descrip 1.5 to 2.0'
	See descrip 1.5 to 2.0'
.1	Orientation = E-W
W	Total Depth = 4
	Length = Z2
2	Sande 28-01-020-1.5'-2'
Training The same and	3 and 14-01-010-1.5-2
	Sala 61-01-00-4-6'-5-5'
	Same Botton de la constante de
'] 'r\ \	Sould Silt No Brance on Dalacis
10 7	
	a 1
Au	a linear

SAMPLE LOCATION SAMPLE NO. (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % se, % fl, moisture, plast)	VOC METER READINGS
EP-01-020-1.5-7.6'	ML	they Dad Grayed Born (2.57 %), low to make the photosis, Low to made. St. Hingss, South Sitt who key. Agree. Born-40 Sub-pounded way fine to Fine Sano, w/50 mas. South and Sub sub-rounded Fine to Maso. game L. Day.	۵۰0 ۳۰۰ ۰
Comment: Ash Lance & Lance of Nails or Rollin Land Surface No encounce of E	15'-2' 815 6"-9"	Eght another (2.59 %) Souly Sitt with 70% Fines, so graved. 30% sub-rounded, fine to very Fine pench-graded EMO. Law placebuly, Law Steffers. Marst.	0.0 pm

SWMU NO.: D.C. Krupicka / R.I	E Was Assate
TEST PIT LOG: TP	• //8/60
DATE EXCAVATED: 6-3-92	
TIME EXCAVATION BEGAN: 1230 WEATHER CONDITIONS: Clear winds 5-10 mah.	Fre NE = 80° F
LOCATION OF TEST PIT REFERENCE POINT:	
Feet N,S	
of Survey Ref	Dh hua (100,036) has les
72 K 1	Dk brown (104 + 3/3) ML/CL with sand to about 1' bgs
, , , , ,	platy soil with rootheirs
15	•
3	Orientation = Erst - West
(021-27)	Total Depth = 5 ' Length = 7 '
E PAI 9 2 2 3	Length = 15
a u u u u u u u u u u u u u u u u u u u	
'd ×	si- 1.5-5'
10 7 67-01-01	70.3
13.	
SAMPLE	
LOCATION USCS SOIL DESC	
SAMPLE NO. (R.) USCS SOIL DESC! SOIL TYPE (color, % gv, % es. %	fl. moisture, plant.) READINGS
EP-01-021 LOCATION USCS SOIL DESCI SOIL TYPE (color, % gv, % ea, % EP-01-021 4.5'-5.0' ML Moderney Place	R. moleture, plast.) READINGS (10 Y L 4/3) Fic (Sandy Siff. 0 - 0 ppm
EP-01-021 LOCATION USCS SOIL TYPE (color, % gv, % ea. % EP-01-021 4.5'-5.0' ML Madranled, Plan outh Clay, 3	R. moleture, plant.) (10 YE 4/3) Fic (Socy Siff Fix 5-b-reside.
EP-01-021 LOCATION USCS SOIL TYPE (color, % gv, % ea, % EP-01-021 4.5'-5.0' ML made and file outh Clay, 3	R. moleture, plant) (10 1/2 - 1/3) Fic (South Siff) Fig sub-rounded and five to south
EP-01-021	R. moleture, plant.) (10 Y = +13)
EP-01-021 SAMPLE NO. (RL) SOIL TYPE (color, % gv, % ea, % gr, % ea, %	R. molecure, plack) (10 Y = 4/3) Fic (South Siff, Stiff) O. Opposition Fig. 5-1-rounded Malandry About FINES. Blost.
EP-01-021 SAMPLE NO. (RL) SOIL TYPE (color, % gv, % ea. % Brown majestely flow on the Clay. 3 Fine Small Soul Desci	R. molecure, plack) (10 Y = 4/3) Fic (South Siff, Striff O. Oppose) Fig sub-rounded and five to very Maderilety About FINES. Bast.
EP-01-021 EP-01-021 EP-01-021 ENDER BY SOIL TYPE (color, % gv, % ea. % BY SOIL TYPE (color, % gv, % ea. % EP-01-021 Fine Small Small Small Fine Small No gravel	R. moleture, plant.) (10 Y = 1/3) stiff O. Oppor Fig 5-b-roubel Maleuly About FINES. MAST.
EP-01-021 EP-01-021 EP-01-021 EP-01-021 ENDER BY SOIL TYPE (color, % gv, % ea. % EP-01-021 Fine Small Small AND GRAVEL	R. moleture, plant.) (10 Y = 1/3) stiff O. Oppor Fig 5-b-roubel Maleuly About FINES. MAST.
EP-01-021 2'-3' SM Done Of Sily sand	R. molecure, plant.) READINGS (1042 - 1/3) - stiff O. Oppon Fig. S. J rounded al. first to very Malantoty About FINES. Mast. Promis (7.54 3/3) O. Oppon With 20 to 302
EP-01-021 2'-3' Comment: LOCATION USCS SOIL TYPE (color, % gr, % ea. % Brown ML Br	R. molecure, plant) (1842 4/2) stiff O. Oppon Fig. Shady Siff Fig. showled Medically About Fines. Mast. Fines. (7.54 3/3) O. Oppon With 20 to 30% Court (7.54 3/3) O. Oppon With 20 to 30% Court (7.54 3/3) O. Oppon With 20 to 30% Court (7.54 3/3) O. Oppon With 20 to 30% Court (7.54 3/3) O. Oppon With 20 to 30% Court (7.54 3/3) O. Oppon Court (7.54 3/3) O.
EP-01-021 2'-3' Comment: LOCATION USCS SOIL TYPE (color, % gr, % ea. % Brown ML Br	R. molecure, plant) (1842 4/2) stiff O. Oppon Fig. Shady Siff Fig. showled Medically About Fines. Mast. Fines. (7.54 3/3) O. Oppon With 20 to 30% Court (7.54 3/3) O. Oppon With 20 to 30% Court (7.54 3/3) O. Oppon With 20 to 30% Court (7.54 3/3) O. Oppon With 20 to 30% Court (7.54 3/3) O. Oppon With 20 to 30% Court (7.54 3/3) O. Oppon Court (7.54 3/3) O.
EP-01-021 2'-3' Comment: LOCATION USCS SOIL TYPE (color, % gr, % ea. % Brown ML Br	R. molecure, plant) (1842 4/2) stiff O. Oppon Fig. Shady Siff Fig. showled Medically About Fines. Mast. Fines. (7.54 3/3) O. Oppon With 20 to 30% Court (7.54 3/3) O. Oppon With 20 to 30% Court (7.54 3/3) O. Oppon With 20 to 30% Court (7.54 3/3) O. Oppon With 20 to 30% Court (7.54 3/3) O. Oppon With 20 to 30% Court (7.54 3/3) O. Oppon Court (7.54 3/3) O.
EP-01-021	R. molecure, place) (1842 1/3) stiff O. Oppor File (South Siff) Fig. sub-rounded and five to some placed of About Fines. Bust. Compared 25 to 30% about 15% fine subranded gravel. and placeticity, loose, larse subanjular to Il graded some.
EP-01-021	R. molecure, place) (1842 1/3) stiff O. Oppor File (South Siff) Fig. sub-rounded and five to some placed of About Fines. Bust. Compared 25 to 30% about 15% fine subranded gravel. and placeticity, loose, larse subanjular to Il graded some.
EP-01-021	R. molecure, plack) READENCE (1842 - 4/2) - stiff O. Oppon The Sandy Sitt The sub-rounded Mandandry About These. Mast. These. Mast. These of the solution about 159, fine subranded gravel. And plasticity, large, large subangular to Il graded sound. Corrosion stains from 2 to 3' orange called tion stains. Below

SECT NO 3942.0120

R.F. Herbert D.C. Krupicka SWMU NO .: . TEST PIT LOG: TP_EP-01 - 02.Z DATE EXCAVATED: 6-4-42 TIME EXCAVATION BEGAN; 0805 WEATHER CONDITIONS: Partly closely 60° F no wind LOCATION OF TEST PIT REFERENCE POINT: Feet N.S Feet E,W. E of Survey Rel. 0 to 1' bys Ok brown (1047 %) dry sulty clay or clayer silt wife for sand there was not stiff, no plants, about 20 to 30 persons Orientation = East - West # W Total Depth = 5.5 Longth = 15 Depth in Fe BP-01-052-5-5.5 EP-01-022- +-5

SAMPLE LOCATION SAMPLE NO. (RL)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % ea, % fi, meisture, plast.)	VOC METER READNIGS
EP-01-022 4-5'	SM	from (1042 5/8) moist sity sand with about 60% very fine to time subsequiar to subsequiar to subsequiar to to to to to the times, no plants, for stiffers, no grand; poorly-graded sand.	0.0
EF-01-022 5-5,5 S	5P-SM	Light cline brown (254 st) most, peoply-graded send with sitt about 85% very line to fine subangular losse send, loss than 16% fines, nonplostic, soft.	0.0

From 3 lest to 4.5 BGS, oxidized blue and white stains and ach probably from bross and a hapiroum a arroxion. This acadized layer also contains abarcon I debris and is dorser and thinker towards the user end of the pit. Varabatified white-blue glossy material in very coarse gravel sizes.

No conduce of debris or burning below 5 feet

D.C. Kreeila / R.F. Herbest SWMU NO.: . P-01 - 023 TEST PIT LOG: TP 6-4-42 DATE EXCAVATED: TIME EXCAVATION BEGAN: JEAL Licht North **WEATHER CONDITIONS:** LOCATION OF TEST PIT REFERENCE POINT: Foot N,S Foot E.W. of Survey Ret. 0 to about a. 6' by. dk man (104.74) dry silty cley or clayer sitt with sand (me-ce), mod. stiff, mod. Plastic, about 20 to 30 percent fi to very fi saind. Orientation = E-WTotal Depth = 6 Length = 14'

while oxidation cooling probably abusiness

SAMPLE NO.	LOCATION (fL)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % se, % fl, moisture, plast.)	VOC METER READINGS
if-01-023 –	4'-5'	ML	Light Oline Bonne (2.51 Hz) Moint Sapely Sixt with what both fract with many the fract with continuous Mostraly and man Still Contains what the fine to very free subsanded. Seed, poorly-grades , Nobered.	0.0 ррм
EP-01-023 — 9	5.5 -6 °	ML	Light airs Brun (2.54 Sh) Maist. Sonly Silt with what 60% have without to Low photony, soft to mad. Steff. Contrains about	0.0 m
Comment:			Tero-10's four to V. fore, sub- rounded Early point graded. All graves astrones 25's Clay.	

From 2 to 3' BGS, small white exidution stains proved (2) patholy from acroscal buries alvanious. From 3 to 5' BGS, scattered arrange iron exidation stains with a considerated area bented about 4' from east and. No avidence of burning or major datoris. Primarily exidetion stains with some highly corroded iron frequents. Below 5', native TEAD-N PHASE I AFT Soil United.

PROJECT NO. 2942-0120

SAMPLE

Verpeto/ 12.1. Habet SWMU NO.: EP-01-024 TEST PIT LOG: TP DATE EXCAVATED: 1210 TIME EXCAVATION BEGAN:. P.Clurk **WEATHER CONDITIONS:_** LOCATION OF TEST PIT REFERENCE POINT:

Feet NLS Foot E.W.

of Survey Ret.

DL. Brew (1042 3/2) Das S. Was Clay -/ Sacc Mod-Sriff, New Physic; Almar Zon- 20% f. to

beroximate boundary than sm/ml Orientation = E-W Total Depth = 🕏 Longth = 23'

2000 - Sample 8-01-024-0-1' Contos Sange Ron Zoto Silver of Tranch.

5-ME EP-81-024-4-5'-5'

<u>E</u>	13	
Depth in Fee		
4 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7	
10		
	ASARI E	•

SAMPLE LOCATION SAMPLE NO. (ft.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % se, % fi, moisture, plast.)	VOC METER READINGS
EP-01-024-0-1'	-M-12 201 14-12 5M	Very dark gray (1042 31) sitty sand with gravel, dry about 60 to 70% very fine to fine submeded to submappeder, lace sand, 15 to 20% fines, will low plasticity, moderately stiff 15 to 20% fine to medium submappeder to rounder gravel	0.0
EP-01-024-15-6	Mi	Light afine brown (2.59 sf4) moist	0.0

sandy sitt but and erate plasticity, medicate stiffness, about 10% fines, about 30% very fine pearly graded, substantial, buse sand, no grown.

Comment:

From 3 inches below surface to 1' BGS a 1-fast thick born zone enstaining charcoal fragments, fragments of highly existinced metal both white (alminom) and prange (iron), nails, and electrical cosol.

Bahw 2 feet, no evidence of burning or libris.



SWMU NO.:	D.C. Krypicka / R.F. He-best
TEST PIT LOG: TPEP-01-	025
DATE EXCAVATED: 6-4-	00
WEATHER CONDITIONS	t cloudy cool 5-10 mph NE wind
LOCATION OF TEST PIT REFEREN	CE POINT:
Feet N.S	
Feet E.W	
of Survey Ref	Sw-SM from surface to 3"
	2 / 10 Ye 3/4 V. Dave bornish Brown
نه در ا ^ا (۱۸	L' WEIL- Graves Same -/ SIT - Graves
	ML-CL, ingel alive bison sillychy of = 15-20/k sandy very fine ration. Add plas Orientation = North - South Shi
	15-20% sandy very fine ration. And place
12	Orientation = North - South St
	Total Depth = 7'
N	Length = /7
	المداح
	wable to containe soil
	between 5 une 7 feet BGS
	Treach to deep and unstable.
in the same of the	1770
Ē 6—	
	EP-01-025- 6.5-7
8-100	
<u></u>	E7-01-025-45-5'
10	EZALO 15-3 REA
	6-4-14

SAMPLE LOCATION SAMPLE NO. (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % se, % fl, moleture, plast.)	VOC METER READINGS
EP-01-025- 4.5-5'	SM	Dork yelowish brown (104R 4(4), Morst, Silty Some or/Very Fine to Morstong sub-rounded to sub-manyovan Some, Loose, Belling to Cos Grading dusto presented burn Fragments. 150-276 fines, 1800-player, NO Gravel.	0.0 M

SP-SM Light aire Bonn (2.5 Y &), maist EP-01-025-6.5'-7' 0.00 possing-grades Som w/s:LT; plant 90% for to v. for suf-rounded lossi Some w/about 10% forms, 1000-plaste. 100 Gravel. Comment:

· Debers : uchules Azec construs ul Paralute Lives (metal), mue contlere unidentifico Conictens.



D.C. Krypicka / B.F. Harder + SWMU NO.: **TEST PIT LOG: TP** DATE EXCAVATED: TIME EXCAVATION BEGAN:. LOCATION OF TEST PIT REFERENCE POINT: 15-20 mph Sw wind Feet E.W. Dark grayish brown (251 4/2) dry, well graded sand with silt and prove! of Survey Ref. Orientation = N-S Total Depth = 7.5 Length = 17 EP-01-026-4.5-5 taken 6-8 ft from softh and . - metal strapping EP-01-026-7.0-7.5 taken 7-1/44 from south and. -55-gal barrels SAMPLE SOIL DESCRIPTIONS **VOC METER** LOCATION USCS READINGS SAMPLE NO. **BOIL TYPE** (color, % gv, % sa, % fl, moisture, plast.) (R.) EP-01-026 -45'-5' SW-Sm Very durk grayish brown (2.5 3/2) 0.0 pm moist West-Gross Some w/5:17 Age. Bow five to comes sub-pupile To Sub-moudes some, 100-150 fires with about 5% fine sub-pometed Gravel., Loose, som -plaster to Low Phostaits. EP-41-026 - 7'-75' CL-ML Light Olive Bound (2.51 &) moistles Clay with with Som and Set. Contract inclusions of Amende Blue for Clay, may be just about Contract "/Clay. Bow find sub-rounded Loss Song. Map. Planta, paul. Stoff. O. O ppra Comment: P.T Delors Executions includes 6- 55-yol. drums (No Tops), mo Smake Comunitare (15 mm and 155 mm), 90 mm flare canalles; possible high pressure of laders, short pieces of 6-inch fife, condle residue, white on wattom stains, metal strapping

PROJECT NO. 2942.0120

swmu no.:	D.C. Koreika / 2.F. Herbest	
TEST PIT LOG: TP	EP-01 - 02-7	
DATE EXCAVATED:	9 June 1992 AN: 1025	
WEATHER CONDITIONS		
LOCATION OF TEST PIT	REFERENCE POINT:	
Foot N,S		
Feet E,W	N	
of Survey Ref	Dork grayis L dusti-brosse Same of the 20-25's Sub-ve	brown (2.57 4/2) 1515 & formal walant has Common
5	Orientation = No/+	6-Salth
	SC Good-Zoom (2.54) Agin of Debaic	ביים האבה פיים
u u u u u u u u u u u u u u u u u u u	Some Er-or-027-25'-4' Pourly - braseo S	Sam(2.54 LM) mas W/S:LT.
10	Smile ED-01-027 - 5'- 5.5'	
SAMPLE LOCATION AMPLE NO. (R.)	USCS SOIL DESCRIPTIONS SOIL TYPE (color, % gv, % se, % fl, moisture, plast.)	VOC METER READINGS
P-01-027 - 35-4'	SC Circyish brown (2.57 5/2) dayey sand	0.0

LOCATION	USCS	SOIL DESCRIPTIONS (color, % gv, % se, % fi, moisture, plast.)	VOC METER
SAMPLE NO. (R.)	SOIL TYPE		READINGS
EP-01-027 - 3.5-4'		Caragish brown (2.57 5/2) chapey sand, moist, without 75% very fine to fine subrandal, loose sand no gravel, about 2590 fines, adding plasticity, madenate wiffness	0.0

EP-01-027-5-55 SP-5M

Light goldwish brown (2.54 64) party O.C. godol sand with silf, moist, about 90% very fine to fine subrounded to subangular sand, nonplayfix loose, about 10% fines, soft, no grovel.

Comment:

· Teench deloris includes unaverse would shoul Tubint, Come Rose Residue, and an electrical Rox, Ocinian Teench appeared to be a V Doop.



EP-01-028-7-7.5

- EP-01-028 - 4.5.5 '

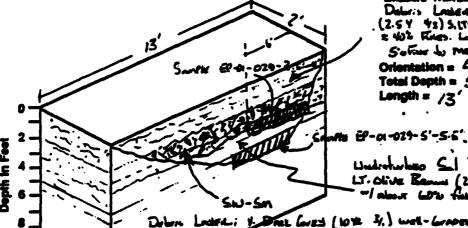
SAMPLE LOCATION SAMPLE NO. (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % ss, % fl, moisture, plast.)	VOC METER READINGS
EP-01-028-45'-5'	SM	Dank Oline Brown (251 \$3) Mais 5.17 Sine w/n but 80% Very Time 70 Conese west-product sub-rounded to Subany ton Sout; Loose.	0.0 mm
EP-01-028 -'7-75'	ML	Now-plash. to Bly ATY plasts. ABOUT 20th fores. 5 to fine Sub-rounded Gravel. Customs funty your morn praticiss. Light aim Brown (2.5 y 45) maist	
Comment:		Santy S.IT; Alut 65% fines with Low phostacity, stypply 57. AT; About 36% f. to Vf. punty-granded 50%- rounded Sand; AD gravel.	O. O. A.

Encountered abundant metallic debris from 2.5 feet to 6 fort BGS. Debris included exceled annuition bases, a crusted 30 gal drum (ages), 3.5 inc. rowest containers, bending wire, flat boading strops, other undentifiable metallic bebris. A bluish-white exidation residue about 25 to 4 feet wide and I fout deep was at the base of the debris some, Native soil NPHASEIRFI appeared below 7'.

PROJECT NO. 2942.0120

D.C. Krupicka | RF. Harbert SWMU NO.: TEST PIT LOG: TP DATE EXCAVATED: TIME EXCAVATION BEGAN: clardy 85-90°F no wind **WEATHER CONDITIONS:_** LOCATION OF TEST PIT REFERENCE POINT:

Feet N.S Feet E,W .. of Survey Ref.



Bout ful margaral from Surface To Datoris Laurea (0'-2.5), Dive Rose (2.5 y 42) 5.174 Sour, was - Granders . 2 402 Roses. Law Procedure, EL. ETTH. S'afair Li Mas. Grant. Orientation = E-W Total Depth = 5% Longth = /3'

Waterhaling S.I Boursth Dalois = ML LT-Olive Beams (2.5 Y 5/s) Sauch GIT - Malour Low fines.

Dolon Lodge: 4. Dal Gress (10# 31) well-Grasso Saus WSILT.

BAMPLE NO.	SAMPLE LOCATION (fL)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % se, % fi, moisture, plast.)	VOC METER READINGS
EP-01-029	3.5-4	3w-3M (A=4)	Very dark gray (1018 3/1) moist well-graded sand with sild noghwel, abundant ask material. Lease, manphastic, about 1070 fines.	0.0

5.5.5

Light plive brown (2.57 s/s) maint sandy silt, what 60% fines, madian planticity, moderately slift, whout 40% party graded fine to very fine substanded, loose sand.

0.0

Encountered debris at 2.5 feet BGS; includes banding material both flat and wire, 3.5 inch recent, water pipe. Minor white - bluish exidation residue.



D.C. Krypicka R.F. Herbet SWMU NO.: _ EP-01-030 TEST PIT LOG: TP_ DATE EXCAVATED: 4860 RFH 6-10-12 -10-92 TIME EXCAVATION BEGAN: QROQ WEATHER CONDITIONS: YOUTH GOODY 65°F LOOP SWMIN LOCATION OF TEST PIT REPERENCE POINT: Feet N,S Foot E.W. Very dark grapish brown (2.57 3/s) dis Sandy silf with about 60% kines, no gravel 40% very free to endison subrounded well graded sand. of Survey Rel. TO STAND THE PROPERTY OF THE PARTY OF THE PA Orientation = NE~SW
Total Depth = 7 NER Length = 13" - Alse-attite acidation stains erage acidical metal fragments 87-01-090 - 3-35° 100-01-030 -6.5 -7

SAMPLE LOCATION SAMPLE NO. (R.)	UBCS SOIL TYPE		VOC METER READINGS
EP-01-030 - 3-3.5	ML	Verjoint grayish brown (2,54 ste) moist, sandy sitt, with Apoll LOK fines: Low pheticity, mederately, stiff; plast 40% V. fine to Comme sub-rounded to sub-payable. wast-graded Sovo. No gravel.	0.0 pp

EP-01-030-65-7' SP-SM

Light Chie Bound (25 Y %) moist poorly-gooded Sind with SLT; MON-phostic, slightly still. Moor 15% Fines, Ab growel. Soul is Vitua. To fine, sub-rounded.

0.0 Am

Comment:

No clearest borz but zone distinguished. From about 2'845 to 6'845 scattered anidations of mobal, both orange and bluish-billy and few matel frogments, Native soil below 6.5 feet 845.



D.C. Krapicka / E.F. Herset SWMU NO.: EP-01-03 TEST PIT LOG: TP DATE EXCAVATED: 6-10-92 TIME EXCAVATION BEGAN:. 85°E 5 not sw wind **WEATHER CONDITIONS:_** LOCATION OF TEST PIT REFERENCE POINT: Feet N.S Foot E.W. of Survey Rel. GW-GM WILL-Graded Grand N Orientation = North - South Total Depth = 6 Length = 26 ME 8-41-031 - 5.5 - 6 SLIGHT DANGEL Soil Discolorations in upper sw-sm Unit SMALL EN-01-051-0'-1' Per Profile

SAMPLE LOCATION
USCS
SOIL DESCRIPTIONS
SAMPLE NO. (R.)

EP-01-031-0-1

SW-SM

Dark yray (10 1/2 4/1) dr

well 2 raded sund with

Park gray (10 1/2 4/1) dry 0.0

Well graded Eund with silt

and gradel, about 70 70 very line

to course subsumed to subanyther

loses sand about 20% file to

course subshied to subanythis grown!,

Non plostic

EP-01-031-5.5-6 ML

olive brown (2.54 4/2) dry
sift with clay, about 0.0
70% fines, no grave, dout
30% very line subrounded sand,
medium plasticity, moderately
shift to stiff,

VOC METER

READINGS

Comment:

No debris, no visible ash or burn zone. However, obvious fill material observed with abonder well graded sand and gravel from about 1 to 3 feet 1045. UKB personnel suggest a possible powder burn tranch.

of Survey Rel.

20

20

Pr. Prekis

Saute Ef-ex-022-0.6'-2'
(Hann Saute)
Orientation a North-Saith
Total Depth = 54'
Longth = 40
(Pass Like) Bankfillen Transh on P.T?

Swalle Ef-th- DS2- 5'- 5.5'
(Bullet)

SAMPLE LOCATION SOIL DESCRIPTIONS VOC METER SAMPLE NO. SOIL TYPE READINGS (color, % gv, % as, % fl, moisture, plest.) (R.) HEGY Dank Ground Brown (1014 4) day EP-01-03Z-0.5-2 Sm NIA Silty Some , what 45% f. to v. fine sub-roundes pouch - probled Some, Louise Contrar other 35% fores with Low Plastowy; soft to med. soft less Thou S'u pomel.

EP-01-032-5'-5.5' ML

Beaus (1042 4/3) dry silt with clay, 0.0 about 75% fines, no great, about 25% very fine grained, subspunded, sand. Medium plasticity, moreoverly skiff.

Commont: No debris on Bun Adraha NOTEO.



D.C. Kongreke / R.F. Ha hart SWMU NO .: . EP-01- 033 TEST PIT LOG: TP June 1992 DATE EXCAVATED: TIME EXCAVATION BEGAN: WEATHER CONDITIONS: PT. Claudy, LC - 20°; mad. & Still Bears L LOCATION OF TEST PIT REFERENCE POINT: Feet N.S Foot E,W . of Survey Ret. SW-SM Very Dark Grayish Brown forte &) ANNUK Day well graded sand with love, non plantic. About 80% very fine to medium. poor 20% fines ; Soft. Orientation = N/N /556 55EE Total Depth = 7'. Small arong e oxidized metal fragments EP-01-033 - 4-4.5 EP-01-033 - 6.5-7

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % as, % fl, moisture, plast.)	VOC METER READINGS
E7-01-033		5w-5M	Norget grayish brown (2.54 3/2) most well graded sand with sift, about 1970 very fine to medium subangular sand, loose, about 102 fines, manplastic, Sample Contains 116-26 small ordizes metallic	0.0 pm
er-01-033	3-65-7'	ML-CL	Fragments, an shind set ut/Grey Ast. Visy Deal Grapped Brown (2.5 y %) MOIST SLT ELECTOPHEND. ABOUT 1806-850 Fines with mas. Physics by, 80%-850 Fines with mas. Physics by, 80%-850 Fines Sections about 150 f. & V. Kine Subswelled Peach-product Seco.	0.0pm
Comment: TREAL Jasye Same II	h Contains to Chunk of metal fro	metal b	Lens of Ady Biru motocial, gran	-48 mas, anidired

PROJECT NO. 2942-018

WT - While Vf = very fine fation TEAD-IN PHASE I RFI

swmu no.:	D.C. KEUDICKS, P.F. Hechelt	I
TEST PIT LOG: TP EP-61-634		
DATE EXCAVATED: 6-11-72		
TIME EXCAVATION BEGAN: 0740	about 70° 15-20 mph 30 wind	,
	Marie Commission of the Commis	
LOCATION OF TEST PIT REFERENCE PO	AN (
Feet N,S	• •	
of Survey Ref	.>	
•	A Suase	a 2. \ .\au
	2 VEED DE GRANDE Brown (2.5) WELL-GRANDE SAND W/ S.LT T	Comerts is afrecit
	Sub-remove to Annules Admit	- Sall
	SOUR LANGE SELT. POPPER	11-9 E
N	Orientation a AAAAA	775
	Total Depth = 6.5	
	Length = /7	
The state of the s	Smill plet's: Hatman	
2-		
	Santie - 87-01 - 024 - 3.5' -4'	•
5 4-1: " \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/ Also Expos. Renderty	Sample)
50,7		
8 J		
8 Miles	Saulte 2-01-084-6'-6.5'	
10		
white/Grey		
Ash-Soil Lines		
SAMPLE		
LOCATION USCS	SOIL DESCRIPTIONS	VOC METER
BAMPLE NO. (R.) SOIL TYPE	(color, % gv, % sa, % fl, moisture, plast.)	READINGS
EP-01-634 - 3.5-4' SM	Very dark grayish brown moist,	0.0
	(1042 \$/2) silly sound no gravel,	
	with when the automated well graded	
	lance and hopefulic about	
	20% times, set to mensily stiff.	
- 1 ZFN 6 14-42	soul come als) is sandy	00
8-01-034 - 6-6.5 AL-EL	Dark brown (10 YR 4/3) moist, after me 129 fines, medium plasticity, moderately stiff about 50% fines stiff	-ve C.U
CL	was the first the state of the	
-	mental process of the state of	1
	entranded, poorly graded seed.	₹
Comment:	- 4 1	
Debris Conside model of	Title Great/Libite Asha Recious	
	and Till I al Bus a mass a Baselle	

PROJECT NO. 2942-0120

STILL IN Old Trench.

O.C. Krusicka / R.F Herbert SWMU NO.: _ TEST PIT LOG: TP _ EP-01-02 DATE EXCAVATED: 6-11-92 80° F WEATHER CONDITIONS: Pact/ c/ave. 20 min & wind LOCATION OF TEST PIT REFERENCE POINT Feet N.S. Foot E.W. of Survey Ref. 5 K SW-SM EP-01-035-0.5-1 Orientation = North - South Total Depth = 6.5 Length = Miner Deheis (see below) EP-01-035-6-6.5

	SAMPLE
SAMPLE NO.	
EP-01-035	05-1'

USCS SOIL TYPE 5W-5M

SOIL DESCRIPTIONS (color, % gv, % sa, % fl, moisture, plact.) **VOC METER** READNIGS

0.0 m

Very dark grafish brown (25 7 3/2) moist, well graded sand with silt and gravel. About 70% very fine to corre subrounded to subanyular loose sand. How t 20% fine to coarse subrounded to subanyular gravel. About 16% fines, resplastic and soft.

2FH 6-14-42 67-01-035 6-6.5 ML-CL

Dark yellogish brown (10the \$4) was true alog moist with the the known 10% 0.0 fines, medium plasticity, moderately stiff. About 2070 very time to medium, subangular to subromoded your Sand.

DCBy MAZ

Comment:

Minor debris includes small metal plate fragments, a copper tube section, small rubber hose; no major

debris or boin evidence.

SWMU NO.:

TEST PIT LOQ: TP __EP-E(- 036

DATE EXCAVATED: __6-//-72

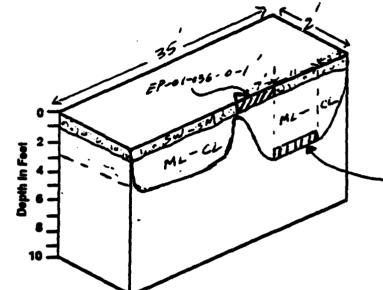
TIME EXCAVATION BEGAN: __/330

WEATHER CONDITIONS: _Pactly clevely __Bo*/= , _Ze-?5 copt __5 - via d

LOCATION OF TEST PIT REFERENCE POINT/

Foot N,S _______

of Survey Ref.______



Orientation = Neith - South Total Depth = 5.5 Length = 35

EP-01-036-5-5.5

SAMPLE LOCATION
SAMPLE NO. (R.)

EP-1-U3L - 0-1

USCS SOIL TYPE SW-SM SOL DESCRIPTIONS (color, % gv, % se, % ft, moisture, plast.) VOC METER READINGS

0.0

Dark olive gray (54 3/2) dry wall graded sand with silt dad gravel. About 75% very fine to course subrounded to subsayular loose sand. About 15% fine to course subrounded to rounded growl, About 10% fines, non plastic, soft

EP-01-036 - 5-5.5 ME CH 12

Olive brown (2.54 4/3) sile with sady law clay with single of the clay with medium plasticity, medarately stiff. About 3070 very fine to fine subsounded, poorly graded, tope sand. No grovel, Moset,

Comment:

No evidence of burning or debris.



SWMU NO.:/	D.C. T	THE /RF	Helbert	
TEST PIT LOG: TP	EP-01-637	-		
DATE EXCAVATED: AT	H 6-17	- 42		
TIME EXCAVATION BEG	3AN: 0950			. 1
WEATHER CONDITIONS	1: <u> </u>	5 20 -	Sagar Seed W	n d
LOCATION OF TEST PIT	reference point:	<u> </u>		
Feet N.S				
Feet E,W				
of Survey Rel	N			
	اجر	< /		
		2		
	.'//		ash layers superior	a bu fill
	37.05.1.5			•
	لوز ٥٤٠٠		Orientation = No.	411 - Swith
5	ليترسخط المحرار			
LP.U	5603		Total Depth = 7 1	
	2 1		• •	
	-	.		
= 2		. //		•
	Ch - Cl			
5 4-1 · **	·			,
			SP-01-037 - 6.5	-7
	t prisile			
~ ~		المراسا		
10 1	الأسمر	1-6-7		
	K			

SAMPLE NO.	SAMPLE LOCATION (fl.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % ea. % fl, moisture, plast.)	VOC METER READINGS
EP-0(-037		SM	slightly maist, 2.54 % very dark grayed trown sitty same (sm), non-pleake, non-stiff, loose. Approx. 5% and gravel, 20-25% fines, 80% sand. Will course, subanqular to subraunded sand. Fi to mad subanqular to subraunded gravel	0.7
EP-01-037	-6:5-7'	CL-C#	Slightly moist 10 YR4/3 dark trown CL-CH Fatchy - learning with sand Plastic, Stiff. No gravel 15-20% Som Northing subsequents subsequently sand.	0.7

Comment: Two ash layers from 1 to 2' ags separated by a fill some. Scattered oxidered metal transments at 2-4' type. Lid from a 2" can, Charcoal from wood (apps 2" long) and fine copper wire. White/bluish residue, possibly aluminum



R.F Herbert SWMU NO .: . P-01- 638 TEST PIT LOG: TP. -12-42 DATE EXCAVATED: _ 1615 TIME EXCAVATION BEGAN:__ 25'-30 meh WEATHER CONDITIONS: _________ LOCATION OF TEST PIT REFERENCE POINT: Feet N.S Foot E.W. Down sources with graded came groups the desired and which as it and gentral Appe. To x visit to be of anyther to set to and a control of anyther to set to anyther to set of anyther to sub-resolved drawning them. Plants, now-stands of anything provided to anything the form the set of anything provided to anything the set of anything the se N of Survey Ret. E17-01-030 -05-2 Orientation = North - Susta Total Depth = 7.5 Length = /Z -scattered crange oxidized Depth in Fe metal fragments

SAMPLE LOCATION SAMPLE NO. (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % sa, % fi, moisture, plast.)	VOC METER READINGS
Er-01-078-0.5-2	•	slightly moist (2.54 %) very dark fragish brown willy sond (5 m). Am-plastic, non-stiff, loose. Appr. 5% qv, 20-25% fines, 70% sand. VA - A sob-angular to subramded sand. Florand subramqular to sub-rounded grave!	0.7
EP-U1-038 - 7-7.5	crlen	wet (eyr 4) dank trown loan clay/ fat aloy with sand (auton), platic to very passe; stoff to very stiff. No grand. Appr. 15% VS sub acquier to subramed and	0.7

Common: Multiple burn layers from 1 to 3.5 BES superated by fill layers. The number of burn layer was not distinguishable. Items encountered include a 2' diameter steel god turnef lid, 50 celiber builets, and scattered crange oxidized metal tragments from 2' to 5' BES.

you growed

You very fine

Go Give

TEAD-IN PHASE I RFI

PROJECT NO. 2942.0120

		D.C. Drain / E.F. Heit	<i>مد</i> ت
SWMU NO.: TEST PIT LOG: TP	EP-11-1	039	u.I
DATE EXCAVATED:	6-12-		
TIME EXCAVATION BEG		1	
WEATHER CONDITIONS		EOF 30 mgh 3W wind	_
LOCATION OF TEST PI	t reference f	POINT:	
Feet N,S			
Feet E.W		. /	
of Survey Ref		N	
	_	* '	
		2	
		multiple	burn layers
_ 16		Orientation =	North - South
5		Total Depth =	`&'
			16
• -	· All		
زخ و			
₹ ²	1 5 m	المسمر الم	
Dopth in Feet		Profile.	
		ل المامم	
夏61 / 川代の	- TOU	J	
s 1 / 17 .	MATCH		
•4	AL CONTRACTOR OF THE PARTY OF T		
10 🛨			
10-			
1			
	1		
SAMDIF	K-3.6*		
SAMPLE LOCATION		SOIL DESCRIPTIONS	VOC METER
SAMPLE LOCATION (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % sa, % fl, moisture, plas	
BAMPLE NO. (R.)	USCS SOIL TYPE	(color, % gv, % sa, % fl, moisture, ples	L) READINGS
LOCATION	USCS SOIL TYPE	(color, % gv, % sa, % fl, moisture, ples	L) READINGS
BAMPLE NO. (R.)	USCS SOIL TYPE	dry to Slightly moist, very dark gray	L) READINGS
BAMPLE NO. (R.)	USCS SOIL TYPE	dry to Sightly moist, very dont gas, troun (25 y 42) sifty send (5m), han-plastic, non-shift, Appl. 5-10 fine to medium or subsecutor to sub-	L) READINGS
BAMPLE NO. (R.)	USCS SOIL TYPE	dry to Sightly moist, very dont gas, troun (25 y 42) sifty send (5m), han-plastic, non-shift, Appl. 5-10 fine to medium or subsecutor to sub-	L) READINGS
BAMPLE NO. (R.)	USCS SOIL TYPE	dry to Slightly moist, very dark gray troum (25 y \$/2) sitty sand (5m), then-plastic, non-slift, heps. 5-10 fine to medium groupsubanquiar to sub-parely 15-20% hines; and 55-86 finestics subrandial subrandial	nich 0.7 lease, y. Mounded y.'. Wi to cooke
EAMPLE NO. (RL)	USCS SOIL TYPE	dry to Slightly moist, very dark gray troum (25 y \$/2) sitty sand (5m), then-plastic, non-slift, heps. 5-10 fine to medium groupsubanquiar to sub-parely 15-20% hines; and 55-86 finestics subrandial subrandial	nich 0.7 lease, y. Mounded y.'. Wi to cooke
EAMPLE NO. (RL)	USCS SOIL TYPE	dry to Slightly moist, very dark gray troum (25 y \$/2) sitty sand (5m), then-plastic, non-slift, heps. 5-10 fine to medium groupsubanquiar to sub-parely 15-20% hines; and 55-86 finestics subrandial subrandial	nich 0.7 lease, y. Mounded y.'. Wi to cooke
BAMPLE NO. (R.)	USCS SOIL TYPE	dry to Slightly moist, very dark gray troum (25 y \$/2) sitty sand (5m), then-plastic, non-slift, heps. 5-10 fine to medium groupsubanquiar to sub-parely 15-20% hines; and 55-86 finestics subrandial subrandial	nich 0.7 lease, y. Mounded y.'. Wi to cooke
EAMPLE NO. (RL)	USCS SOIL TYPE	dry to Slightly moist, very dark gray troum (25 y \$/2) sitty sand (5m), then-plastic, non-slift, heps. 5-10 fine to medium groupsubanquiar to sub-parely 15-20% hines; and 55-86 finestics subrandial subrandial	nich 0.7 lease, y. Mounded y.'. Wi to cooke
EAMPLE NO. (RL) 69-01-039 - C-1'	SM SM A	dry to slightly moist, very dort gray to slightly moist, very dort gray troun (25 y 1/2) silty send (5m). I have to such inc. to such inc.; and 85-86 interficient subangular to subrandinastic for the subrandinastic for the subrandinastic form (10 yrs. 141).	READINGS rich 0.7 lease, y. Recorded y. with the course of Send. 2006-19-94 chappy sidf creately 0.7 Si to the record.
EAMPLE NO. (RL) 69-01-039 - C-1'	SM SM A	dry to slightly moist, very dort gray to slightly moist, very dort gray troun (25 y 1/2) silty send (5m). I have to such inc. to such inc.; and 85-86 interficient subangular to subrandinastic for the subrandinastic for the subrandinastic form (10 yrs. 141).	READINGS rich 0.7 lease, y. Recorded y. with the course of Send. 2006-19-94 chappy sidf creately 0.7 Si to the record.
EAMPLE NO. (RL) 69-01-039 - C-1'	SM SM A	dry to slightly moist, very dort gray to slightly moist, very dort gray troun (25 y 1/2) silty send (5m). I have to such inc. to such inc.; and 85-86 interficient subangular to subrandinastic for the subrandinastic for the subrandinastic form (10 yrs. 141).	READINGS rich 0.7 lease, y. Recorded y. with the course of Send. 2006-19-94 chappy sidf creately 0.7 Si to the record.
EAMPLE NO. (RL) 69-01-039 - C-1'	SM SM A	dry to slightly moist, very dort gray to slightly moist, very dort gray troun (25 y 1/2) silty send (5m). I have to such inc. to such inc.; and 85-86 interficient subangular to subrandinastic for the subrandinastic for the subrandinastic form (10 yrs. 141).	READINGS rich 0.7 lease, y. Recorded y. with the course of Send. 2006-19-94 chappy sidf creately 0.7 Si to the record.
EAMPLE NO. (RL) 69-01-039 - C-1'	SM SM A	dry to slightly moist, very dort gray to slightly moist, very dort gray troun (25 y 1/2) silty send (5m). I have to such inc. to such inc.; and 85-86 interficient subangular to subrandinastic for the subrandinastic for the subrandinastic form (10 yrs. 141).	READINGS rich 0.7 lease, y. Recorded y. with the course of Send. 2006-19-94 chappy sidf creately 0.7 Si to the record.
EAMPLE NO. (R.) EP-01-039 - C-1 Comment: Fram +4:-K sepen frugments	SM SM A	dry to Slightly moist, very dark gray troum (25 y \$/2) sitty sand (5m), then-plastic, non-slift, heps. 5-10 fine to medium groupsubanquiar to sub-parely 15-20% hines; and 55-86 finestics subrandial subrandial	READINGS rich 0.7 lease, y. Recorded y. with the course of Send. 2006-19-94 chappy sidf creately 0.7 Si to the record.
EAMPLE NO. (R.) SP-01-039 - C-1 Comment: Fram +4:ck seper frugments f: his	SM SM A	dry to slightly moist, very dort gray to slightly moist, very dort gray troun (25 y 1/2) silty send (5m). I have to such inc. to such inc.; and 85-86 interficient subangular to subrandinastic for the subrandinastic for the subrandinastic form (10 yrs. 141).	READINGS rich 0.7 lease, y. Recorded y. with the course of Send. 2006-19-94 chappy sidf creately 0.7 Si to the record.
EAMPLE NO. (R.) EP-01-039 - C-1 Comment: Fram +4:-K sepen frugments	SM SM A	dry to slightly moist, very dort gray to slightly moist, very dort gray troun (25 y 1/2) silty send (5m). I have to such inc. to such inc.; and 85-86 interficient subangular to subrandinastic for the subrandinastic for the subrandinastic form (10 yrs. 141).	READINGS rich 0.7 lease, y. Recorded y. with the course of Send. 2006-19-46 chapty siff recisely 0.7 Si to the
Comment: Fram Hick seper Fragments Fram Fra	SM SM A	dry to slightly moist, very dort gray to slightly moist, very dort gray troun (25 y 1/2) silty send (5m). I have to such inc. to such inc.; and 85-86 interficient subangular to subrandinastic for the subrandinastic for the subrandinastic form (10 yrs. 141).	READINGS rich 0.7 lease, y. Recorded y. with the course of Send. 2006-19-46 chapty siff recisely 0.7 Si to the

PROJECT NO. 4 120

TEST PIT LOG: TP EP-01-04C

DATE EXCAVATED: 6-12-92

TIME EXCAVATION BEGAN: /355

WEATHER CONDITIONS: C/Car 25 -30 mph 5 minds

LOCATION OF TEST PIT REFERENCE POINT:

Fost E,W
of Survey Ref.

0

2

CHARGE CAPT SOLUTION STATEMENT OF SOLUTION STATEMENT SOLUTION

SAMPLE NO.	SAMPLE LOCATION (RL)	USCS SOIL TYPE		OC METER READINGS
EP-01-040	0-1'	Say-san	dry tomoist, dirk grayish from fourth) (2-5y Vs) Well graded sand with 600 6-292 silt and gravel. Appl 25% hi to med subangular to angular gravel; 15-26% fines; and 55-60% Whi to coarse subangular to subrounded sand. Loose.	6.7
EP-C1-046	85-9'	CL/CH	bust, Bark brown (byt 4/2) s lan about fat Clay with some shop places in strict, stiff to tary shift. No gravel, 15-20% whi so his subangular to sub-rounded 2 rad.	0.7

Comment:

Scattered orange-cridized metal fragments from about 5' to 7' BGS. At 7' BGS a black burn zene about 3-4" thick. Below 8'845 no cuidence of debris or burning observed.



SWMU NO.: D.C. Krineke	R.F. Heithert
TEST PIT LOG: TPEP- 1- 041	<u> </u>
DATE EXCAVATED: 6-/32	
TIME EXCAVATION BEGAN: 2830	
WEATHER CONDITIONS: LICUTE 60 "F 5-10"	ME wind
LOCATION OF TEST PIT REFERENCE POINT:	, , , , , , , , , , , , , , , , , , ,
Feet N.S	
Foot E.W	
of Survey Ref	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Orientation = North - South Total Depth = 25 4.5 Length = 20 512-01-041-9-9.5

SAMPLE NO.	LOCATION (ft.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % sa, % fl, moisture, plast.)	VOC METER READINGS
EP-01-041-	- 6 - 1'	ວິພ	WEAR TO SALL FAREN LICHE 3/1) PARENT LARGE STORES LARGE STORES LARGE TO LA	0.0
EP-01-041-	9 '-95'	LL- ML	Corrose 11. Inc. 4. Correct 506 - ROUNED to high - Australian Land God, were 200-1-70 live Longe. Sub-rounded to 5.1 - Hober Societ. (4 176 Fires). Drive Round (2 54 4/2) wat Lean (134 with Same + 6.17 About 150 face with Means to high Products Moo. Style 6-6-72 About 2016 for its fire subscience from we that 50 Million sub-augusta. Soc. Calcarous.	0-0 N m

At 1' Birs; a black 2" layer, possible burn zoner Few scuttered orange-oxidized metal fregments 0-5' 1305.

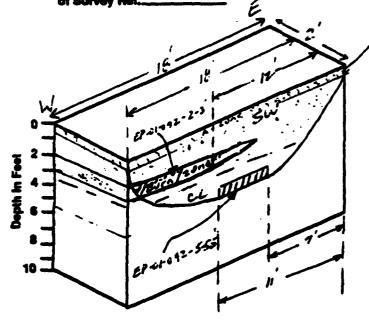
No major debris encountered during exposition.



Feet E,W ______
of Survey Ref._____

used Deer iver (13% 3%) Dey .
Some willsvarel "Calcaceous a short
y 20" for the the counter leasel.
(300)

Orientation = Fast - West
Total Depth = 5.5
Length = 16



SAMPLE LOCATION SAMPLE NO. (ft.)	•	SOIL DESCRIPTIONS (color, % gv, % sa, % fl, meisture, plast.)	VOC METER READINGS
EP-61-642-2'-3'	AH/S.L	Vent Dack loves (16th 3/1) beg Source can with about the Asid And Source for the Melalic Transports . How - Plants, Lave .	. 0 0 Pm
EP-01-042-5'-5.5'	CL	Dave Benne (1048 3/3) mass, Colemans	D.C FFM

Dack Berne (1048 3/3) mant, Colombous
Learn Class about size field with 1980.
to that Floriday, 1000. St. H. Carbous
about 1000-1000 Reds-broken from to
that int-remains tooker come. Ab
Company.

Comment:

Encountered turn zone from 2 to 3' 13th 5 comprised of whitish-gray burn residue and ash. Small chances of orange and white metal slag abordant in sea materia. Trench born zone appeared to pinch out near models of pit indicating exist to be located westward.

TEAD-N PHASE I NE

SWMU NO.:/		20 200	ور از عدد م	ورك بي	خد- برين
TEST PIT LOG: TP	P-01-043				
DATE EXCAVATED:					
TIME EXCAVATION BEG	AN:				
WEATHER CONDITIONS:	21500	= 7ccF. L	1 - Sak# 24	free	NNU
LOCATION OF TEST PIT	REFERENCE PO	WIT:			

Feet N,S _ Feet E,W _ of Survey Ref.

SM-SL (see helow)

Orientation = East - wast Total Depth = 51/2. Length = 22'

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % as, % fl, moisture, plast.)	VOC METER READINGS
EP-01-043	- 0-1'	SM-SC	Very durk group. Sh brown (2.5: 3/2) Det. Colonomos Silth Some william. Couthins who it income Poolly - lemose L. L.	0.0 710
			U-lieu Cub-Rouseso do lub-Aradet Least Sara, III atari 215-35 MeD. Sub-eur-lea Sara. Lorlaire alart 4010	
EP-01-643 -	5-5.5°	<u>L</u>	MOD. ST. H. 120-220 fine communities Grand Dark yellowish brown (10 YR 3/4) may;	 0.D _M
			FIRS WITH THES TO HESE TOURS THESE WITH THE THESE TOURS	
Comment:			Some of the large Sch-removes	

Depth in Feet

scattered orange existinch metal forgments from

SWMU NO.:

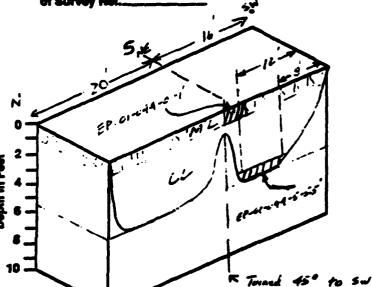
TEST PIT LOG: TP FF-CI-C44

DATE EXCAVATION BEGAN: 13-C

WEATHER CONDITIONS: C/SHC 75-F 5-10 m/h Nil by M/S

LOCATION OF TEST PIT REFERENCE POINT:

Feet N.S ______ Feet E.W _____ of Survey Ref.____



Orientation = Eust - West Total Depth = 5.5 Length = 20' 7 16 = 36

SAMPLE NO. (R.)	SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % as, % fl, meisture, plast.)	VOC METER MEADINGS
EP-01-644 - 0-1'		very dark grayish brown (2.5 4 3/2) dry contereous sandy silt, about 60% fines medium prastivity moderately stiff, About 46% fine - very fine subancular at 25,42 subrounded purp stated tomas single case flow 5% fine subrounded proved.	0. C. ppm
EP-01-044-5-5.5	CL	Dark yellowish from (10 12 3/4) massi, calcurred to Jean clay with sond	مرام م

70 - 75 % Times

medium to high plasticity, materially

stiff. About 25-30% porty graduit very fine to fine subsensed to subsensed to subsense from sund No growth.

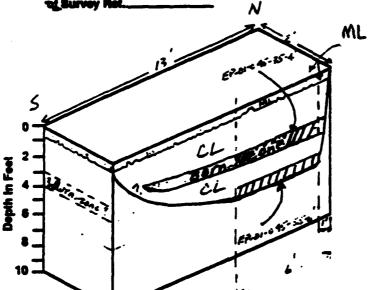
No evidence of debris or burning.



/ Rif Haiter =-SWMU NO .: . TEST PIT LOG: TP _EP-E1- 545 DATE EXCAVATED: 6-14-32
TIME EXCAVATION BEGAN: 0320
WEATHER CONDITIONS: 6/24/ 5 1706

LOCATION OF TEST PIT REFERENCE POINT: Feet N.S

Foot E.W. tof Burvey Ref.



Viced Dack Conside Brow (11.78 %)
Does Sounded S.LT, inemplestic
with 5 to 109e fine sommapolar proof.

Orientation a Noish - 5...14 Total Depth = L Length = 13'

SAMPLE NO.	SAMPLE LOCATION (RL)	USCS SOIL TYPE		METER Admgs
EP-51-645	,	ASH	Heek (16.2 41) in increated soil and ash material. Nonplustian with abundant charical, ande grange, and yellow turned metal Transacts No stack. Moist.	C. Ci Fyin
EP-(4-45 ·	- 55 -6	CL.	Brown (1042 4/9) moist leum clay with sund. About El 4- 4672 finds medium to righ plasticity, moderally still the etith. About 16 to 264 peoply growed, very fine gramed total supplier to substantial sand from the grovel. No grovel.	0.0 jpm

Tremb Cartons defeat Born Lover to Louis a manual and mascowly while I value vindous men marrial, inclined metal large pieces (1904 1007) of metal stage

D.C. Keverka SWMU NO.: EP-61-646 TEST PIT LOG: TP 6-14-52 DATE EXCAVATED:_ TIME EXCAVATION BEGAN: 0:50
WEATHER CONDITIONS: Glassing Congrest 60 F 5 pp out and LOCATION OF TEST PIT REFERENCE POINT: Foot N.S . Foot E.W . hory dut kyniged brownflet (R. 194) sandy sift, diry, about the 196 To the times, modernte 196 for the province of the 196 for the 196 for the 196 for the 196 for the 196 form and the 196 form to the 196 form of Survey Ret. Orientation = Ileril. - Souri. Total Depth = Length = N **s** ' EP-11-6+6 - 3-35 Depth in Fee EP-11-116 9.5.5

SAMPLE LOCATION SAMPLE NO. (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % as, % \$, moisture, plast.)	VOC METER READINGS
EP-01-046 - 3-4.5°	ML	Paris regist histon (1072 4/2) must somely soft. About 60 to 75% four low measure it, anderest to staff about 70 - 75%; very fine to fine subangular to submissed 10000 pouts growth some. No growel.	0.0 fpm
EP-01-646 - 4.5-5.	CL	Brown (18-16 1/3) most lown they with sund. About 5: to 70 % times wedgen to such starting, mulerately stiff. About 10 to 3.5% pourly graded fine to very fine sibonsum to substantial decree sand. No second.	C. C ppm

LIN OFFE

Comment:

Encountered been zone draw ? to 3.5 665. Within the top part is the hein zone, changes (3 to 6" long) of glassy posientary material. No major debeis.



SWMU NO.:	. /		D.C. 2	1: 315K2	1 s. = Horse	*	
TEST PIT L	OG: TP	?-c/-: (:47 -: /4 -: 2	7	/			
TIME EXCA	VATION BEG	W: 1215			1800 1 49-72		
WEATHER	CONDITIONS:	Coer-15	+ 1000	51906	TO NE MO	/	
LOCATION	OF TEST PIT	reference f	POINT:				
Feet							
Feet						4	٠.
Depth in Feet	cr-o1	37.52		\$ M 22 M		70 % Jero to Susumo July 1 About 1 26 to Joset 1: Lew	loose: Life Haan
SAMPLE NO.	BAMPLE OCATION (ft.)	USCS SOIL TYPE	(color, %		moisture, piest.)	VOC ME	
EP-61-647 -	- <u></u> ', 1 - 1.5	ML	sundy to the state of the state	out Dry ou plasticity thour to to how to ru not. No gr		e e e e	wild .
EP-c/-C47 -	5-5.5	6L	pear city medium p 16 re Kp subrui-leat No ground.	with sweet. fastioity, so scry time to subangula	(10:12 4/8) may Afair 10 50 % When toly stiff to time, poerry Corporate Annie	tian Thu May	.e pp.
Comment:	Small comprised stee! piercaje o	lens Shu of gla ipe, a audizeul	ped bur siy vesicul prooktion metal ar	n zone ur materi t peller, agomonts	from about al. 460, and mino	t / te / g 34" /ea r smoots	l. 5 Ges 19 H et 19 E
<u></u>							
A							

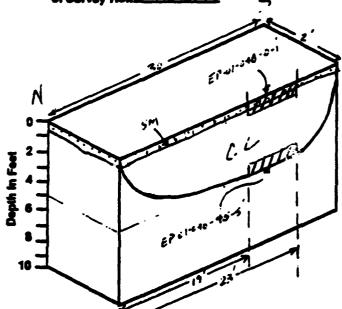
PROJECT NO. A.

THE EXCAVATED: 321

WEATHER CONDITIONS: CARLOST, AND CONTINUE OF THE AVE WAS A

LOCATION OF TEST PIT REFERENCE POINT:

Feet E,W _____



Orientation = North South
Total Depth = 5'
Length = 35

0.0 /

SAMPLE LOCATION
LISCS SOIL DESCRIPTIONS VOC METER
SAMPLE NO. (R.) SOIL TYPE (color, % gv, % ee, % 8, moleture, pleat.) READINGS

EP-U1- L-48 - 0-1 S/V 1ery dock 973.97% / round (1434 44) 0. C. fpm

will sank, dry, who - 70 to File very fine to modium well product, subscience to subscience luss winds. About 15 to 20% fines, mapplestic, soft. Less than 5% time or bangelet good,

El-01-048 - 4.5-5 CL Brown (NOR 4/2) moist lean sing

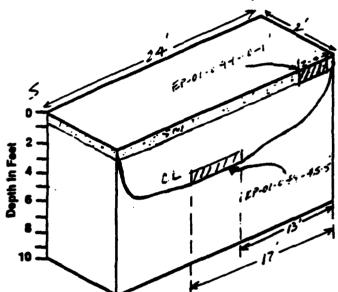
with sand. About 76 on Eife fines, modium plasticity, modurately state. About 26 to surpant of fine for purify and to fine purify and the fine family and the surpandon to surpressed to surpressed. No scool.

Comment:

No evidence of bein or debris.

Foot N.S _____

Feet E,W _____ of Survey Ref._____ N



Orientation = North-serth
Total Depth = 5"
Length = 24

SAMPLE VOC METER LOCATION SOIL DESCRIPTIONS SAMPLE NO. SOIL TYPE **READINGS** (color, % gv, % se, % fl, moisture, plast.) very dast grayet from (16:12 3/2) 0.0 pm EP-01-044 - 0-1 5M dry , calemon silly sand , About Ell to TC To very fine to specially studed, substantial to substances of will-ystuded, least stant. About 30 to 35 to Finances of substantial provided provided to be protected to 50th. About 5% has substantial provided. Groun (1.02 4/3) to doit brown i.l ppin EP-21-244-4.5-5 moist lean way with sand. About 75 To Eight Fines medium plusticity, moderately still to still. About 26 to 259 very fine to line, substitute to accompany ground to accompany ground to accompany. to we sometime, poorly gooded , RAN 6-15-92 No -10061 Comment:

No evidence of born or dates . Soil approved to be undistorted.

(1)

DO. Krodick. P. F. Hochert Fr-01 - 50 TEST PIT LOG: TP_ ÷ · · > - 92 DATE EXCAVATED: 0865 TIME EXCAVATION BEGAN:__ WEATHER CONDITIONS: Live ... LOCATION OF TEST PIT REFERENCE POINT: Foot N,S Foot E,W. of Survey Ref. 4 20m. C-(#5, Dage Clive Ling (SY 312)
Dage West- Graded Same WIS.LT,
SW-SC Live, SCFT, West Grades.

Alex: 10th Mar Plan Top Sept Company
Roses, Alex: 5th Care Sub- Empany
Orientation a Ecos T - Livet Total Depth = 5 2m. 2 5921-626 738. Longth = 23' E7-1-520-1.5-5 SAMPLE LOCATION LIBCS SOIL DESCRIPTIONS **VOC METER** SAMPLE NO. SOIL TYPE (color, % gv, % sa, % fi, moisture, plast.) READNIGS Usite Deet Grasiah Brand (254 42)
dies 5.173 Samo w/(124) about 60%
V. t. ac to fine Pool to broke hise
Sub. Rumoro Gramo, about du'is sich,
L. to Mise Plante total with finale.
Strand Zeal to W.L. EP-01-650 - 2.5-3 C. C ppm Sm/SC Er . . . 56 - 4.5-5 Dace Mines Promod (2.57 2/2) MAST O.C ppm CL LEAN LIDS WITH SOME MED STIFF WITH MED to WITH Plant of the Confined Should be the Sub-Parketon State Sub-Parketon Rest Compto Samo. No (somet. Stant Renting -1 HLL. Comment:

Burn 3 were encountered from 15-3' BGS pinching with in western half st fit. Items escalated include a metal rud at 1' BGS, 50 and currindys, charconly wood, pieces at traken glass, and patches of outdired white residue

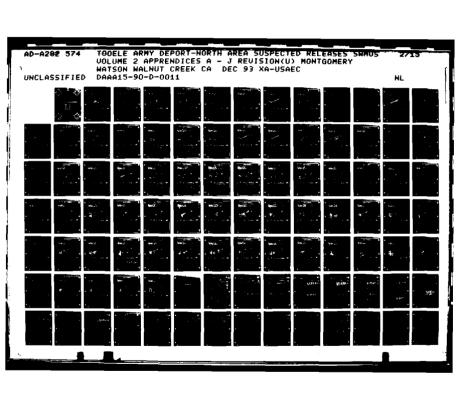


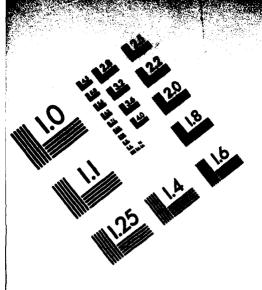
	ME 1992 WIS (55-15-5) Light Process have S POINT:	
	Orientation = E-W Total Depth = .5.5 Length = +1	L) Deg wen- (presse istricase i Solla sub-rived to Seese, 107 as 157 m de (m. Seese i 406 d. May. Gribb.
SAMPLE LOCATION USCS SOIL TYP	ه دیاد ساخت برخید پیداد پرسازه اسان سرخه د	VOC METER READINGS
P-c1·051 -5-5.5 CL	Medium subsequent to subtended soft lossy send. About 10-1590 fines, suppliestic, soft, No grave! Strong New Processing New Processing New Processing New Court Strong New Court Strong New Control Strong New Control New Control Strong New Control New Control Strong New Control St	O.O PPM
omment: Bile long equational	down 2.5 to 4 Birt in western side	ا الأدور شي



1001 111 6001 11	: p-: j- j	52 - 400 is 35 - 100 - 4	
DATE EXCAVATED: TIME EXCAVATION BEG/ WEATHER CONDITIONS: LOCATION OF TEST PIT	- Party Cloud	ONT:	
Feet N,8 Feet E,W of Survey Ref		É	٠
0		Orientation = 7.5 Length = 42 Effect is 192	. Abert 16-157, outsi supambar udum sandi
Daph in Food		EP-01-052-7-75	Siel Tun C
SAMPLE LOCATION	USCS	SOIL DESCRIPTIONS	VOC METER
SAMPLE NO. (RL) EP U1-052-2.5'-3'	SOIL TYPE	(color. % gv, % sa, % fl, moisture, plast) Vista Dr. Grand Brown(2.5 Y Vz) maist Lam El 24 w/ 6 240; Méd. & belo Plank of y, MOD. Siff; contains whost 20'0 - 25'6 really - Grace Sub-roused what to five Grand, W/ ND Grand o Street Zearhing w/ Hell. Ts'u-80'u Fines.	D.D FPM
Ep-01-652-7-7.5'	CL	VERS DL. Consum Remail (2.5 Y Fe) manor Leans Class and 5 man, also to him Plankedes, also still; Contracts and to visual - 20'm declar-Consels Sub-rounded at hims to them. 5 man, in Consel. 300-25'm has 5 stacks - 1866.	D.D FFM
Comments fit what so have 3 times (expit. Matal di haisting fixtures	to 2.5 Ba 30') , spill eppis couri , metal 51 iniess steel	could not refused zone. After were could not yet under metal debross sted of heavy-duty support finduces, tunds, aluminum siding and per reafing	ing buckber to pull oil possible

PROJECT NO. 2942 0120



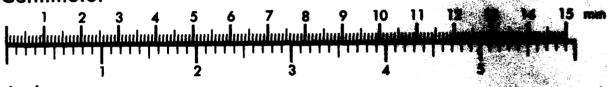


Accordation for information and image Management

1100 Wayne Arenue, Suite 1100 Silver Spring, Maryland 20010 301/587-8202

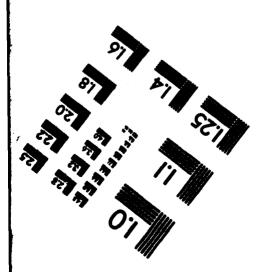


Centimeter

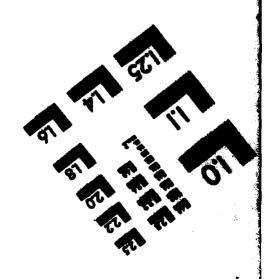


Inches

1.0 4 22 22 1.1 22 22 1.1 20 1.25 1.4 1.6



MANUFACTURED TO AIIM STANDARDS
BY APPLIED IMAGE, INC.



SWMU NO .: . TEST PIT LOG: TP_ DATE EXCAVATED:_ TIME EXCAVATION BEGAN: WEATHER CONDITIONS: Comment LOCATION OF TEST PIT REFERENCE POINT: Feet N,S Foot E,W. of Survey Ref. Durk alive brown dry (2.57 3/3)

Run chy with sind off About 80 to
10% times stiff, moreon plassicity.

About 10 to 20% very fine to another
to show the same. He yours. Orientation = No. 74- 5. Jth Total Depth = 7 Sz-AK #-01 -052 - 64' - 7' Dob. . - STEASTINE (BROKEL) ine et-01-052 - 34'-4'

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % se, % fl, moisture; plact.)	VOC METER READINGS
E?-01-053	- 3.5-+'	CL	Dark brown (10th 49) point from clay with sund, about 90 to 709. Fines mesium plasticity, moderately stiff to stiff. About 10 to 25% powing-graded, very fine grained summer to substituted summer. As gravel.	O.C. pp.n
EP 61-053 -	- 6. 5 - 7	CL	Brown to dera brown (1842 2/9, 40) moist town along with sund. About 20 to 4000 fines, moderately stiff, modern plasticity. About 10 to 1000 along time you and, poorly greated, superpolar to softward some . No great.	O.C IFM

Comment: Excendered Abundant underwed wood fracturents, Auble Izan, steen 12the, A Book CASINLY AND OTHER METALLICE METAL debres causine Barbon Refused in the Leady of Postum at the trench. Adopted to Metal Straffine.



Dr. Kepila/ 2.F. Hadist Main Denilitin Area SWMU NO .: . EP-01 - 654 TEST PIT LOG: TP_ Jan 1992 DATE EXCAVATED: 1310 TIME EXCAVATION BEGAN: P. Charles 65 F. Breeze to Colo **WEATHER CONDITIONS:_** LOCATION OF TEST PIT REFERENCE FOINT: Feet N.S Feet E.W. of Survey Ref. SW-SM Lecer to men. Cherise Some Sile & Connect (See ton sencation selow.) Ē Orientation a Cost - West Total Depth = .5 Length = " Swi-SM me Charle to Cohesive Same This + Cornel. (See description helaw) 69-01-054-4.51-5. (Compaction from Deprust.~ ?) Sample 2001-054-2'-2.5'

SAMPLE NO. (R.)	SOIL TYPE	(color, % gv, % sa, % fl. moisture, plast.)	READINGS
Ei c054-2-2.5	SW - 5M	Deal worked Brown (251 42) secure to wet with grand grand . Through the 1070 with suff and grand to inverse summered to the 1070 with suffered to loose and when send. About 100 to 1070 fine subsequent To substantial grand. About 1070 fine subsequent sumplessing soft.	0.0 prim
Ei? 01- 054 -4.5-5 ′	Su-Sm	Drak Lorse (1042 4) well-greated soul with silt and gravel. Most to used. About so to 76 h very fine to civic subsequels to subsequels to subsequel 100.0 tond. In place within pit, this soil is accessive.	0.0 pp.
Comments		About 20 to 50% line cubany for your!	:

SOIL DESCRIPTIONS

VOC METER

Encounteres Unliness him Franceite (Anno Con?) am Nylon Boo fill of time force. Possible 14" - 14" Crystaine Pale netter-histor washing and from much of HEI?) acres in Charles Charles of Sell from 4"2" - 5" B65 Sannie. From 3" B65 17. 700 Some soil Compaction was purious — possible over the Determinant of the Selling Selling



TEAD-N PHASE I RFI

SAMPLE

USCS

	4	Main Dine	II Am	De V	walle /2 - Her heat
SWMU NO.:					/ / / / / / / / / / / / / / / / / / /
TEST PIT LOG: TP					
DATE EXCAVATED		(-17-12-			
TIME EXCAVATION	BEGAN:_	1/15-			
WEATHER CONDITI			Contract Sector	is fire the	<u>-ku, 65 ./6.</u> k.
LOCATION OF TES	r PIT REFEI	rence point:			
Feet N.S					
Feet E.W		N			
oLSurvey Re					•
of Salate Aug	·				_
			· y' Mul	itiok The B	soc of Elflosius
	_		_ Dil	FALOUT	
	4	نکد سخت		•	•
	سر 🤊 ر				
5 /				Orientation = /	N- <
			11/	Constitution 2	ر. د د. م
			المراسو	Total Depth =	5.5
				Length = 9'	-1
0 75			Parity S	7-01 -055 - 2'	• 3°
= 2 - 2	ر شمرزمر	زهراه المستنهم	d (2.0	¥ €1-01 - 055	- c - c - c'
	برمريب		アノブ		3 -3 -3
= 4-1 @ DC ~ 1			4		
		1 V			
		.	Dunger Ctionn	211	
		Misme	DUNNE CLION	DN PHILLIES	
- - 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一		\ /			
				_	
		X	SW (See D	Che : Prod C	ا بط <i>ا</i> م2
10 -			SW (See D	eswiftigals i	Belau)

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % ea. % fi, moleture, plast.)	VOC METER READWOS
ਈ-U-0 5 5 -	z'-3'	SW	USEN DISEL CORRECT Brown (2.5 Y 3/2) MOINT WEN- Cornece South of Gradeli, Albut 75% white to Counte out-rarder to Gub-Amburnel Losse Saus, about 20% has to Counte Sub-remains for Houses Cornell, white t com facts. Safri Nov-Pinchel Stanto Rentition of Mills	D.G PM.
El-01 - 055 Comment:	· <i>5'-5</i> .5'	SW	Drak Growth Rown LZ-ST Val West West Lien-Casson Some - Loverit; offer 754-50% west-Grows ustice to Casson Some; Losse. About 154-20% Charamen Fine Growall, 45% fines; Non-Plante. Street Zentime - 1 Hel.	D-D Pm
	a company	Augusta . E	Adding one of Billians model of 9'	1

Mines Marile relianting Politics case to Pit Wall; Tarlabett 2' of Pit Comprises of inter 1245000 Grands Shamed Louises of Federal Debis From acceptance details thanks.



Dennison Ama (D. C. Kepille / R.F. Harbert) SWMU NO.: TEST PIT LOG: TP DATE EXCAVATED: TIME EXCAVATION BEGAN: -70 F. Shill Breeze for CLEAN **WEATHER CONDITIONS:..** LOCATION OF TEST PIT REFERENCE POINT: Feet N.S. Feet E,W. of Survey Ret E metal frauments Orientation = E-W Total Depth = 5 Longth = Sample 18-01-056 -2'-3' Samile El-01-056-45'-5' Chi-Son Lee Design. Rober for 2'-3'
(Alex 15's Greek) Sw.cm 4re 32hu (4.5'-5') NO Gravel

SAMPLE NO.	LOCATION (ft.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % sa, % fl, moleture, plast.)	VOC METER READINGS
£9-€1 - &5L −	2'-3'	MZ-CMS	Ollue Carad (SY 3/2) moist with- function Samo with Silt are Gravel; Mart 75% of in to Const wer-Grade Laset Sib-Enwes to Action Samo; about 16% Fire. Sub-Rouding to Routed Cornel. Lases. Mart 10% force, Min-Pinkle, Soft.	D.O PM
E1-11-021-	4.5'-5'	SW-SM	Olive gray (57 5/2) Moist well-bracks South with St.LT; about 85's which to Leave , Leave Sub-Bound of the Himselm South about ville from all Mal-te Law Marketyle moo. Still No Love of Collection Generally Courte For the calls	Ø-D ##

monerality About metal chess or frammats Present in 21-31 interval.



De Kapele 12. F. Harbet Man Devel tree Avez SWMU NO .: . TEST PIT LOG: TP DATE EXCAVATED: TIME EXCAVATION BEGAN: Clina mus. Breaze to- NE **WEATHER CONDITIONS:_** LOCATION OF TEST PIT REPERENCE POINT: Feet N,S . Feet E,W . of Survey Ref. Orientation = N-5 N Total Depth = 5.5 Length = // Sample 12-01-057-21-25 3001-1567-5-5.5 10

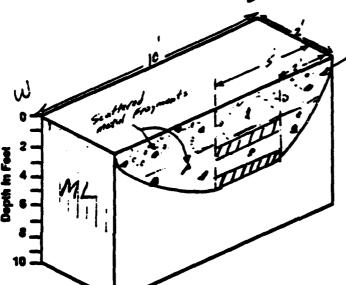
SAMPLE LOCATION SAMPLE NO. (R.)		SOIL DESCRIPTIONS (seler, % gr, % sa, % fl, melature, plast.)	VOC METER READRIGS
BAMPLE NO. (R.) EP-01-057-2-2.5		Dark Corner Rum LZ.SV Was Moint WEN-Corner Samo Missouth for 75h & live to Corner who rounded to Gal- Allend are Lorse Samo; about Jan-Jim Rounded to Gal-vamilal hime to Corner Corner; W/ L Sin F. Mar. Man-Planke. Stanle	G. G prm
<i>EP-01-057 - 5-5.5</i> Comment:	Sw	PERT IN THE Dar Laronah Brum Let Y Med moist was broken 5 and The multident dent little was broken Sand Missauli dent little was broken Sand Missauli and Larona Broken Site for an annual and the forest and the forest little forest litt	C.O frm
	and the same of th	Townsell Bonce design for 1	

Encerierco Sinteres Dance meta Francests wood Truces Metal Bandon Materal.



SWMU NO.:		R.F. Herl	ect /	rc. Kani	<u>L</u>
TEST PIT LOG: TP _EP-61-058					
DATE EXCAVATED: 6-12-42					
TIME EXCAVATION BEGAN: OBIC					
WEATHER CONDITIONS:	76. F	5 mgh	5 W	mad	
LOCATION OF TEST PIT REFERENCE P	ONT:				_
# A A I #					

Feet N,S _____ Feet E,W _____ of Survey Ref._____



Upper 3' continued 10 to 15% gross

Orientation = Einst-West Total Depth = 55 Length = 10

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % sa, % fl, moleture, plant.)	VOC METER READINGS
EP-01-056	- 3-3.5'	ML	Crray (1042 5/1) sandy silt, dry to moist. About 60 to 70%, fines, nonplastic, soft. About 30 to 40% wall gradeded very time to madim subscripture to subscribed sand. Loss than 5% the subscribed parts.	6.0
€[°-C1-05]	- 5-5.5 ¹	ML	Gray (1842 5/1) moist sendy solt, About 60 to 70% fines, low planticly, moderately stiff, About 30 to total well-graded very fine to medium graded, subsequent to substanded same. Less than 5% substanded to Subsequent gravel.	0.0

Comment

Pit contained scattered metal fragments with arrange exidation station. Fragments ranged from loss than time to Binches languity. Open 3 to 4' show indictinat layering, probably from successive determinations in this creter.



R.F. Herbert / B.C. Krypic Ka SWMU NO .: . EP-01-054 TEST PIT LOG: TP_ 6-18-92 DATE EXCAVATED: _ TIME EXCAVATION BEGAN: _0930 75° F 5-10-01 Ented WEATHER CONDITIONS: __c/cac LOCATION OF TEST PIT REFERENCE POINT: Feet N.S Feet E,W. of Survey Ref. Orientation = North - South Total Depth = 5.5 Length = 25

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gr, % ea, % fi, moisture, plast.)	VOC METER READINGS
BP-01-059	-0-1	SW-SM	Black (1042 2/1) dry well-graded sand with silt. About 80-70%, very fine to course schangular to schrunded loose sand. About 10% fines, nonplostic, soft About 5 to 10% fine subrounded gravel.	0.6

6P-01-059 - 5-5.5' CL

Light oline brown (2.54 5/s) mont lean clay with sand. About 75 to 8570 fines, andentaly stiff, medium plasticity. About 15 to 2590 perly graded, very fine, subrounded to subangular sand. No gravel.

0.0

Comment:

10

A thin but zone was collect from about 4 to 10 inches BGS. Burn zone contained abundant chorcoal, ash, undersed wood fragments about 1" 4", nails, matal fragments, and abundant pronje oxidation stains.



2.F. Hotert | D. C. Kingrick. SWMU NO.: TEST PIT LOG: TP. DATE EXCAVATED: TIME EXCAVATION BEGAN:. 75% IGOAL NE wind To postly clouds WEATHER CONDITIONS:_________________ LOCATION OF TEST PIT REFERENCE POINT: Foot N.S Foot E,W. of Survey Ref. E Orientation = East - west Total Depth = , 6 Longth = 13 £1-01-000-2.5-3

SAMPLE LOCATION SAMPLE NO. (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % ea, % fl, moleture, plast.)	VOC METER READWIGS
EP-01-060 -2.5-3	St.	viery dalk grayish brown (1879-992) moist to wat chappy sund About 50 to 60% well-graded very fina To madium, subangular to subrounded isose sund. About 40 to 50% finas low to modium plasticity, soft-mod. slift.	0 . 0
EP-01-060 -5.5-G'	ML	ware brown (1042 5/3) moist to act sandy eiff. About 00 to 7070 fines, madium plasticity, moderately elith. About 30 to 40% peoply-graded very fine to fine subanded and.	O.D

Commone: Buried tanch appears to occur from surface to 4' 205. This upper 4 to semi-layered soil. Below 4' 265, soil is structuralist.

Items to countered in treach include several small motal fragments, a fuse, and a small patch of blocagroom excitation stain.

SWMU NO.:	E.F.	Hithert / D.C. Kapika
TEST PIT LOG: TP EP-01-04 DATE EXCAVATED: 6-18-9	3/	
THE EVOLVATION REGAM: /5.5	50	
WEATHER CONDITIONS: <u>Clear</u> LOCATION OF TEST PIT REFERENCE	to partly claudy	75° 5 5-10 apt NE wind
	E POINT:	
Feet E.W		•
of Survey Ref	6,	
5		•
		Orientation = East-west
W		Total Depth = 7.5 Length = 7.5
° *		
2]		161-01-061-4.5-5
	. 100	61-01-001-4-2
5 4-		
E. T.CL		- wande outros fuses
8 -		
1-1	.1.9	
10		

EF-01-661 - 4.5-5' SM Very dark grayish brown (1042 3/2) 0.0 silfy send. Moist a bout 70 to 8090 well-ground why fine to course angular to subtounded bose soft Sand. About 15 to 29% fines, non to low plasticity, soft. About	TER
5% fine to coarse subanyula-granel.	
EP-01-061-7-7.5 CL Dark brown (10 42 3/3) lean clay with sond, Moist to went. About 80% To 40% times, medium planticity, medically stiff. About 10-20% profigurably very fine, sibeequier to substanded early. No gravel.	.0

Several Funds Hearly Ordices Present of 4'-5' Blus: some Some Mobil Francests Havebor UMER 4' (Teachly) interested Transh.

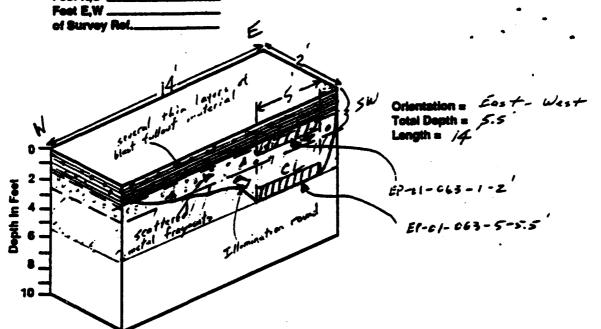


Man Bendin Acca Dc. Vep. 12/2.I. HoberT SWMU NO.: _ TEST PIT LOG: TP DATE EXCAVATED: TIME EXCAVATION BEGAN:_ 700 Clien built Roce for WEATHER CONDITIONS: LOCATION OF TEST PIT REFERENCE POINT: Feet NLS Feet E.W. of Survey Ret. Sw (See description for 2.5'-3' Below, har Game is Cohesine; breaks work of moor ethat in trabels. E Orientation = E-W Total Depth = 6.5 Length = /3 metal fragments EP-062-6-65"

SAMPLE NO.	SAMPLE LOCATION (ft.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % ss. % fl, moisture, plast.)	VOC METER READINGS
£7-01- 062	25-3	Sw	User Dock Lorand Brown [2.54 312] Me. of Well-Lorance Some with Cornell; Ment 75% well-Goods vitus to Loran S.b Paris to 1000000 to S.b Annual to Loran S.b Paris to May 150 - 150 - the S.b Annual to S.b Annual to S.b Annual Content S.b Annual to S.b Annual Content S.b Annual Content S.b Annual Content S.b Annual S.b.	O.D frm
et-01-062 -	L'- L .5'	CL	Dane on the Brand (2 SY 3/2) moist to wat him little about 90's had write. to have Planticity mos criff; about 50's foods - Groves 1. Fine Cut - rounded Some, 1910 Grand - Steels Readon - 1866.	B.D FTM

Commons: Debris encountered included fuse parts, unburned wood frequents, a metal rod, and sentimed metal frequents. Iron early stains were present set no obvious hern zone.





SAMPLE NO. (R.)	-	SOIL DESCRIPTIONS (colur, % gv, % sa, % fl, moisture, plast.)	VOC METER READONOS
BP-01-063- 1'-2'	Sw	D'at Coracch Bruss 11.57 In I day well- Coracto Same - I brance; when 7520 is live to Copyri were sub-recomment Comp Mant Zoto force th-resulted to Sh - Anto- potentia Comment. Really Coracco. 4 Sin Grees when Plantes Louise. Coll. Citario Zanchan w/ Hell.	D.D.Ptm , loose,
£1.01.063 - 5'-5.5	' CL	Dans Chine Brown (2.57 312) ment de wer	D.D m

Line Cl 25 W/S 200. AGOT 70'0-75'6 frees, W/MED to William Photocold 1 MED. STAF TO EAH;

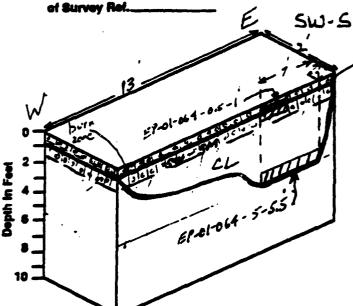
MANY 26'0- Zo'o Manus-Grance V. Free Cob-rained from Caro, W/MD Grance. STEASU Zerobe W/MLI.

Comment:

Items encontered included one flore illumination round one 4 lb. thermite hamb, and scattered metal fragments. No born zone charves.



Feet E,W



SW-SM HERS Dank Consul Bound (2.57 4/2)

Drop well Growing Some "Sell",

Drop well Growing Some "Sell",

Short with the sub-ray, Labor Some

Mant with finds. About Plotter. Soft.

what with finds. About Plotter. Soft.

Total Depth a 5.5'

Length = 13'

SAMPLE LOCATION SAMPLE NO. (R.)

EP-CI-0G4-0.5-/

USCS SOIL TYPE

SW-SM

SOIL DESCRIPTIONS (color, % gv, % ss, % fl, moisture, plast.) VOC METER READINGS

Slack (54 2.5/1) dry to moust wast gravel. About 65-7090 very fine to coarse subscription to subscribed home sound loose. About 20 to 25% fine rounded to subscribe fines from playing soft. Strong MCL reaction.

EP-01-064 - 5-55

CL

Deal Chief Brown (2.54 \$12) Moist Lien Clas with Saus Mart Both fraces MED. Physicists soft to Mad. etiff: Contains, Med. 2012 wither to find sub-rounded i Martin Carpord Saus, wi his Grown . Street Zentral with Med.

0. 0 PPM

0. 0 PM

Comment:

A thin but zone 2 to 3" thick was observed at 8" BGS. This black ash zone also confained from oxide residue. No debris was encountered or observed.



SAMPLE LOCATION SAMPLE NO. (RL)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gr, % se, % fi, meisture, plast.)	VOC METER READINGS
EP-01-065-0.1	ML	very dark gray (54 3/1) sandy silt with gravel. Dry. Contains boost 56 - 60% fines, meaning plants.ty,	0.0 pm
		medium stiffness. About 3070 medium stiffness. About 3070 to subrounded said. About 10-1570 fine subrounded grovel. Stance reaction of the.	
EP-01-065-4.5-5	´ CL	UEAS Dank Covered Branco / 1042 45) exert Line Cl 20 wis 2000; what 20% fines - andro to Initian Productly, and Stiff; Countered and 20% I am to 4-fine, sub-removes, 120212- Grando Suns. 140 Grando, Stando Telephon "141.	O.O rm

Comment

by very thin born layer was observed just below the surface. No debris observed. Possibly a propellant born site (ULB).



TEATLN BUAGE I BE

Foot N.S _____

of Survey Rel.

2

SW-SM

FRANCE - SSS

FRAN

Orientation = East - West Total Depth = 5.5 Length = 9

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % se, % fl, moisture, plant.)	VOC METER READINGS
EP-01-066	3-3.5	SW-SM	Dark gray (1642 4/1) dry well-graded sand with sittle.	C. C ppm
			About 80-7070 very fine to counted loose sand. About 10-15% fines, nonplastic, Soft. About 570 fine subangular to summed grower.	•
E1-61-64 -	5-55'	SW-SM	Dark gray (1042 41) moist well-graded sand with sitt.	G.C ppm

Comment:

well-graded Sand with sitt.

About 80-9870 very line to corre subaryour to subranded loose sand. About 16-1570 fines, nonphotic, soft. Less than 1870 fine subaryour grows.

Abundant modul frequents scattered throughout the pit. No burn evidence, no other debris.

SWMU NO .: R.F. Hochert D.C. Kouzika
TEST PIT LOG: TPEP-01-06-7 DATE EXCAVATED: 6-24-97
DATE EXCAVATION REGAN: C725
WEATHER CONDITIONS: Clase 80° 20-50 mgh Sal wind
LOCATION OF TEST PIT REPERENCE POINT:
Feet N.S
of Survey Ref
, , , , ,
Same 60-01-067-0-1
Orientation = East - West
Total Depth = 5
(cet destro) a langth = /c
- Shi-SM And Throughout
2 - Walley
5 6 - Same 6-9-067-45'-5'
Soil in upper 3 and Treach shows disease
10 - (ace deplais wis & Below) of though Reddish or More formed than
Soil Relan 3' RbS. Dissemburn body is
result of multiple definishme in this contect
SAMPLE
LOCATION USCS SOIL DESCRIPTIONS VOC METER SAMPLE NO. (ft.) SOIL TYPE (color, % gv, % se, % fl, moisture, plast.) READENCE
EP-01-067 - 0-1' SW-SM Gray (10 TH S/1) ary well-graded send with sit! About \$0% 0.0 ppm
very fine to course softens - for
1890 fines, nonplastic goff, desce
About 10% fine subanjoher gravel
.
EF-61-667 - 4.5-5' ML Gray (10 YR Str) dry sandy silt. O.C. ppm About 60-7070 fines, low planticity,
EP-61-667 - 4.5-5' ML Gray (10 th A) dry sandy sitt. O.C. ppm
ES-61-667 - 4.5-5' ML Gray (10 the St) dry sandy silt. O.C. ppm About 60-70% fines, low plasticity, soft. About 20-40% very fine to
Hour of Fires, low plasmery,

ARUNDARY DEDIZED WETH Frame. Notice, Dansing in Size Lieux (1" to > 8"; Present or all depris in Tranch. Sail Sandles obtained and used fine L'Pondery) in Notice, and dry.

<u>.</u>

TRACLN DHARE I DEL

SWMU NO.:	R.F. Hodet D.C. Kapieka	
TEST PIT LOG: TP	/22	
TIME EXCAVATION BEGAN: WEATHER CONDITIONS: Lies Cha 2 LOCATION OF TEST PIT REFERENCE!	after landy BC°F 5-10 apt Sw who	
Feet N,S		
of Survey Ref	<i>₩</i>	
	2'	
1		
E / in	Orientation = East - Wes Total Depth = 3.5 Length = //	+-
	Congun a //	
3 2 3 3 4 4 4	scattered metal fragments	
\$ 1 July 3 A	1.3.5	
3 • 1	EL-91-0 65-3-37	
10 Et -01-060. 5.55		
10 -		

SAMPLE NO. (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS _(color, % gv, % se, % fl, moisture, plast.)	VOC METER READNIGS
EP-01-068-3-3.5	SW-SM	Dark grayish brown (2.57 dry west-graded sand with si	Hz) C.C Mm
		About 80% very fine to course surgeler to sobrounded bases in About 10% fines, soft, mapless that 10% fine subrounded grow	rand,
E1-01-068 -5-5.5	T'SW-SM	Dack armish brown 12.5 V	42) 0000

moist wast- graded sund with sift and gravel. About 7570 very fine to course subsyder to subranded y large sand. About 1570 time subanyular to rounded gravel. About 1070 time foot for fines, soft, amplestic, lase.

Scattered metal fragments throughout pit.



SWMU NO.:/		PITT REPORTED TO A PROPERTY OF THE PARTY OF	_
TEST PIT LOG: TP _E	P-01- C69	R.F. Hechert D.C. Kopink	- -
DATE EXCAVATED:	122 ·		_
WEATHER CONDITIONS			ed wind
LOCATION OF TEST PIT			-
Feet N,8		1 •	
Feet E,W of Survey Rel		น่	
of online toward	-		
	. //	2'	
	3		1 1 1 min
	. أيعاد	Orientation = E	est. West
	سر بسناسه	Total Depth = /3	
2			
		Suntireo Chioraco	noted Francosts.
E 'J CRINCIN		4:	
	1		
E . TATOMIN J		ا - 'S.خ' - و ما C - کانتر پیاهسد بج	
			,
Sam	AK 19-01-05	3.6 -4	
10			
A X			
Sm			
(See Descrip. 2 5%-5%			
SAMPLE LOCATION	USCS	SOIL DESCRIPTIONS	VOC METER
SAMPLE LOCATION SAMPLE NO. (R.)	SOIL TYPE	(celer, % gv, % sa, % fl, meisture, plast.)	MEADWOR
SAMPLE LOCATION		Live gray (54 \$12) morst	MEADWOR
SAMPLE LOCATION SAMPLE NO. (R.)	SOIL TYPE	(color, % gv, % on, % 8, moisture, plant) White gray (54 \$12) moist	
SAMPLE LOCATION SAMPLE NO. (R.)	SOIL TYPE	(color, % gr, % so, % 8, moleture, plant.) Live gray (54, \$/2) morst nell-probled and with silt and gravel. Afait 60 - 70 70 very fine to course 2 \$\frac{4}{2} \frac{4}{2}	MEADWOR
SAMPLE LOCATION SAMPLE NO. (R.)	SOIL TYPE	(color, % gv., % co. % 8, moleters, place) live gray (54, \$2) morety self-probled and with self- and gravel. Afait to -70% very fine to coarses 25625-lar- to self-male for self-self-	O.O pm
SAMPLE LOCATION SAMPLE NO. (R.)	SOIL TYPE	(color, % gv., % co. % 8, moleters, place) live gray (54, \$2) morety self-probled and with self- and gravel. Afait to -70% very fine to coarses 25625-lar- to self-male for self-self-	O.O pm
SAMPLE LOCATION SAMPLE NO. (R.)	SOIL TYPE	(color, % gv., % co. % 8, moleters, place) live gray (54, \$2) morety self-probled and with self- and gravel. Afait to -70% very fine to coarses 25625-lar- to self-male for self-self-	O.O pm
SAMPLE NO. (R.) EP-01-069 - 35-4	SOIL TYPE	(color, % go, % so, % 8, motoron, place) (live gray (54 \$12) most, sell-graded sand with sitt and grave! Afait 60-70 90 very fine to coarego 25655-lar to subsample grave! A hand 109, fines, respective, soft, so	O.O ppm
SAMPLE NO. SAMPLE NO. EP-01-069 - 35-4	SOIL TYPE	(color, % go, % so, % 8, motoron, place) (live gray (54 \$12) most, sell-graded sand with sitt and grave! Afait 60-70 90 very fine to coarego 25655-lar to subsample grave! A hand 109, fines, respective, soft, so	O.O ppm
SAMPLE NO. (R.) EP-01-069 - 35-4	SOIL TYPE	(color, % go, % so, % 8, motoron, place) (live gray (54 \$12) most, sell-probled sond with sitt and grave! Afait 60-7090 very fine to coarage 25655-lar- to subsequent grave! A hand 1090 fines, resplantis, soft, Olive frown (2.54 \$18) mais silty Sand. About 6090 very line to source subsequent	O.O ppm
SAMPLE NO. SAMPLE NO. EP-01-069 - 3.5-4	SOIL TYPE	(color, % go, % so, % 8, motoron, place) live gray (54 s/2) most, sell-graded and giff silt and grave! Afait 60-7090 very fine to coargo 25655-lar- for subangular grave! A fait 10% fines, marplastic, soft, 0/ive frown (2.54 s/2) mois silty Sand. About 6690 very fine to coarse soon, de to subangular grave!	O.O ppm
See Descrip. 2 54 - 54 SAMPLE LOCATION SAMPLE NO. (R.) SP.01-069 - 35-4	SOIL TYPE	(color, % go, % so, % 8, motoron, place) live gray (54 s/2) most, sell-graded and giff silt and grave! Afait 60-7090 very fine to coargo 25655-lar- for subangular grave! A fait 10% fines, marplastic, soft, 0/ive frown (2.54 s/2) mois silty Sand. About 6690 very fine to coarse soon, de to subangular grave!	O.O ppm
SAMPLE NO. SAMPLE NO. SAMPLE NO. (R.) SP-01-069 - 35-4 Comment:	SOIL TYPE SW-SM	(color, to go, to so, to 8, motoron, place) live gray (54, \$12) most self self self self self self self self	O.O pm
SAMPLE NO. SAMPLE NO. SAMPLE NO. (R.) SP-01-069 - 35-4 Comment:	SOIL TYPE SW-SM	(color, % go, % so, % 8, motoron, place) live gray (54 s/2) most, sell-graded and giff silt and grave! Afait 60-7090 very fine to coargo 25655-lar- for subangular grave! A fait 10% fines, marplastic, soft, 0/ive frown (2.54 s/2) mois silty Sand. About 6690 very fine to coarse soon, de to subangular grave!	O.O pm
SAMPLE NO. SAMPLE NO. SP.01-069 - 35-4 Comment:	SOIL TYPE SW-SM	(color, to go, to so, to 8, motoron, place) live gray (54, \$12) most self self self self self self self self	O.O pm

PROJECT NO. 25-0128

D.C. Kop. le / 2. F. Harbert) some lition Area SWMU NO .: . TEST PIT LOG: TP DATE EXCAVATED: TIME EXCAVATION BEGAN:. 1 70 - 75 1. MASE BARRY Son S WEATHER CONDITIONS: LOCATION OF TEST PIT REFERENCE POINT: Feet N.S Foot E.W of Survey Rol. Orientation a East - west W Total Depth . 5.5 Longth = // Samme #-ci -070- 3'- 3.5' Saure -- 01-070-5'-5.5' Sentence Mold Francis

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % ca. % fl, meisture, pincl.)	VOC METER READINGS
£P-01- 070 ·	,	SW-4M	Jack grapes proud (2.57 4/2) Mist will broke to be und Sell; Alexi ECTO I for the test - 1000000 have Some what the first spot routher former; we also to the first first; then - 100000000000000000000000000000000000	0.0 m
EP-01-07D	-5-5;5	Sw-sm	Doe Grand Bow /Zev 42 angrupe- Gross Sop with Sit; what 8th vitus to Corece Sub-mounts to Sub-remises hoose Sour; what 100-15th tooks to Ramose Grovel; what 100-15th tooks about Planting Selt. process to contrain Sidertial more City than 3'-3.9 adjourned. STROUD Renton "I Will.	6.0 ₉₉ -
Comment:	near loca 22 from La 1000 from 10 Explosi	scolleres me	Hell fromments theorebour trench, to over 12" Load. Miss missed Present USEO as suche Nepalli.	Traibins in

PROJECT NO. 2942 0120

D.c Kapula / P.F. Har bost SWMU NO .: . TEST PIT LOG: TP. DATE EXCAVATED: TIME EXCAVATION BEGAN:. WEATHER CONDITIONS:____ Clear inco. France (20mg) from S. 75°F. LOCATION OF TEST PIT REFERENCE POINTL Foot NLS . Feet E.W. W of Survey Rel. Orientation = E - WE Total Depth = 6' Mis E8-01-071- 2.5' -3' ER-01-071-5.5'-L'

LÕ	AMPLE CATION USCS (R.) SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % sa, % fl, moleture, plant.)	VOC METER READWOR
SAMPLE NO. EP-01-011 - Z	.5-3' GW-SM	with propose from (2.5) As moist with lornous Same with LI; what 75% - into cut- remotes to the Detailed withing to losses were losses for about 10% - 15% that Sub-reprotes to two- watering losses i what 10% titles, what - 7101tz Softe treats Reaction of Web.	O.Oppm
ĕ₽-01 - 071 - 4	i.5'-L' Sw-≤m	Dret Correct Brow (254 \$9) moist wasti-tomate State with filt i what 75%-80% sub-remote to 64-molecular uffice to consider these Const that 10%-5% for cid-remote Correct, will alway 10%-15% fixes, alon-Pinda to Law Pindari 180 soft, STEOLL TEXTION -1 1661.	D.D rrm

Comment

Trench contained a boudont Metal fractioned throughout, as well as scattered whereas well as ments (surtaines Crates), and MESTIC wide. Sessee Among Bours Committee UKO lique Encourtees.



Foot E.W of Survey Rol.

Book brown (1872. \$10) than whay with send, dry. About 75-25% the first medium plasticity, 5ti Ff. About 15-25% they file to making was graded discounter to runded send was than 570 time schoopstor grown.

Cotontation a Action Secretary 4:40.72
Total Depth a 5
Length a 14

SAMPLE LOCATION USCS
SAMPLE NO. (R.)

EP-e-1-072 - C-1

0.5-1

RFM 6-27-12

USCS
SOIL TYPE

(color, % gr, % ca, % &, moisture, picel.)

Aff

Very dark gray of proun (2.54 7/2)

Usy sifty sand. About 80% my fine 0.00 ppon

to making subranded to rounded base

was graded sand. About 15-20% for

four plashing to mappenie, soft.

About 5% fine subranded gravel.

Abundant ash material and born reids.

Ef-c1-c72 - 4.5-5 CL

Dark Aroun (10 til 1/3) most lem also with sand. About 75-85% fines madium plasticity, stiff. About 15-25% very fine mally-yeared, subarguing to subranded same. No gradel.

6.6 pm

Comments A thin born zone was encountried from 4-8" BGS. About 10.26 benefit frees, charcoal, and metal stay were contained within the burn zone.



TEST PIT LOQ: TP	lendy 75° F, 5 mph 5 m wind	r- west ask fully
SAMPLE LOCATION USCS SAMPLE NO. (R.) SOIL TYPE	SOIL DESCRIPTIONS	VOC METER
EP-01-073 - C-0.5 SW-SM		C.C ppm
ES-01-073 - 5.5-6' CL	park brown (10 YR 3/3) moist han also with sand. About 15-2570 very hime postivity, slift. About 15-2570 very hime poolly-sinded subsequent to subsequent for subsequent fo	0.0 ppm
sortice to about a	pros observed from just below for 845. Abundant noils and most was. At when the 4'805, we are the development of the 2-3'805.	ind model

PROJECT NO.

SWMU NO.:

TEST PIT LOG: TP 67-01-074

DATE EXCAVATION BEGAN: 1045

WEATHER CONDITIONS: Diecest 80° F Variable 5-10 and winds
LOCATION OF TEST PIT REFERENCE POINT:

Feet E,W _____el Survey Rel.____

Very durk yrayish brown (1042 3/2)

The setty sand. About 60% very fine
to medium schangele to advantable
anti-yradic loose sand. About 10%
fine had plasticly; sett. About 10%
fine autorunded to subanylor pauel.

Orientation a Lost - West

Total Depth = /0 Length = /3'

- pit profile

•	13'	2
2		
Dopth in Fee		Saint I
10	3W 2	Patratia di

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % ea, % fi, moisture, plast.)	VOC METER READINGS
ES-01-074 -	25-3'	CL	very dark grayish proom (2.57 3/2) moist sandy lean clay, About 60-10% fines madron plasticity, moderately stiff to stiff. About 26-40% very fix to five poorly graded subanylar to subranded sand. No grand.	al pm
Eî-&I-074 -	9.5-10	SW	Dark olive brown (2.57 2/9) moist well-graded send with gravel. About 60-70% very fine to course, supergular to rounded loose send. About 20-25% fine to course subsumbed to rounded gravel.	0.6 ppm

Comment

Af 1' BG5 emonstered distinct born/debris zone thickening to west, containing unbursed wood, wood Charcool, banding material, amme box, matel amorements, have motel chain, initiation charge play, upondant acidised metal fragments, buish-white aluminum fore residue, angle iron, plastic zop and plastic slause liger, bright red acidised residue,

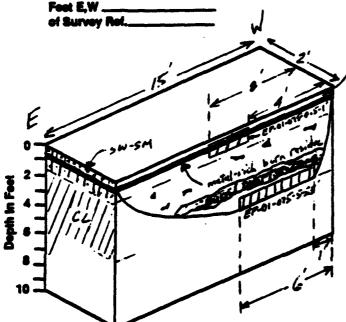
About 570 fines, nonphatic, solt.

An the west and of the pit, a 4' wide prodous debris trench was encountered at about 2.5-3' cas, Abundant metal debris including strapping encountered at about 2.5-3' cas, Abundant metal debris including strapping treatment at west as large pieces of unbursed wood.

TEAD-N PHASE I PPI material as west as large pieces of unbursed wood.

SWMU NO .: . DATE EXCAVATED: 4-74-92 TIME EXCAVATION BEGAN: 1350 WEATHER CONDITIONS: LIKE ASET 30°F 5-10-66 LOCATION OF TEST PIT REFERENCE POINT:

Foot N.S Foot E,W.



Very dark grayish brown (10 th 3/2) dy, and graded send with Side. About 30% very fine to course subangular subrounded bose sand. About 18% brounded to rounded grown!

Orientation a East West Total Depth = 5.5'
Length = /5'

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE	(color, % gv, % ca, % fl, moisture, plast.)	OC METER READINGS
er-01-075	-0.5-1'	SM (ash)	Black (10 th 2/1) dry sity sout. About 80% biry fine to source south supergular to rounded down south. About 20% fines, complette, soft, bone. About ash and charcool.	ac ppm

Dork brown (10 4R 3/3) moist loss clay with send. About 75-85% EP-01-075 - 5-5:5' 0.0 1PM C _ times, medium plantialty, stiff. About 15 - 2570 very fine, prody- product estangular to estrumbed send. No gravel.

TEAD-N PHASE I RFI

A shallow born zone was anountered from 0.5 to 1' BGS. This Zone was composed of metal-rich burn residue and charcoal. A deeper here zone was encountered from This zone appeared to stope southward and do appeared to be comprised of metal-rich born revidea. Oxidized from fragments and aluminum tose parts scattered though

· · · · · · · · · · · · · · · · · · ·		
Man I	Dome ! how Area	
SWMU NO.:	C:	
DATE EXCAVATED: 6-28-9		
TIME EXCAVATION BEGAN: 405		
WEATHER CONDITIONS: ANDLY LIN	14 90°F 10-20 mg E wind	
	PONT:	
Foot N.S		
of Survey Ref	ڼ	•
Somer Rel. 1-+ 340°		
10-6 205	2'	
(clien 12.6 5.2. 2. 2.2.		•
	3	
	Orientation = No.	th-South
	Total Depth = 6	
	Length = /2	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	···	
2 - 3 - 3		
	/	
= 4 - 14 lot lot		
8 7 1 10 10 10 10 10 10 10 10 10 10 10 10 1		
and the second		4
10		
	•	
SAMPLE		
LOCATION USCS	SOIL DESCRIPTIONS	VOC METER
SAMPLE NO. (RL) SOIL TYPE		MEADINGS
EP-01-076 - 0-1' SUI-SM	Very dark gray (2.54 31) dry	0.0
	and arread. About 70% My fin	. C.O ppm
		2 17
	to course subaquilar to remaind	2 ''
	to course subangular to rounded loose sand. About 20% fine	• • • • • • • • • • • • • • • • • • • •
	to corse subapyter to randed loose send. A bout 20% fine subranded to rounded grant the first soft made to	• • • • • • • • • • • • • • • • • • • •
58-01-074 - 55-6° EW-500	subranded to rounded growle About 10% fires, soft, nonplastic	
EP-01-076-5.5-6' SW-5M	subranded to rounded growle About 10% fires, soft, nonplastic	
EP-01-076-5.5-6' SW-5M	Substanded to rounded gravels About 10% fires, soft, completely Derk grayich brown (2.54 4/2) min matterpolated sond with sitt and	
EP-01-076-5.5-6' SW-SM	substantial to rounded growth About 10% fires, soft, ramplestic Dark grayich brown (2.54 4/2) min was-graded sond with sift and graded. About 70% very fine to course substantial	- 0.0 ppm
EP-01-076-5.5-6' SW-5M	substantial to rounded growth About 10% fires, soft, ramplestic Dark grayich brown (2.54 4/2) min was-graded sond with sift and graded. About 70% very fine to course substantial	- 0.0 ppm
EP-01-076 - 5.5-6' SW-5M	Substantial to rounded gravels About 10% fires, soft, completely Dark grayich brown (2.54 4/2) min matterpolated sond with sitt and	- 0.0 ppm
Comments	substantial to rounded gravel. About 10% fires, soft, ramples to Dark grayich brown (2.54 d/s) mustingered sand with sitt and gravel. About 70% very fine to converse substantial to set and substantial from and. About 20% fire substantial gravel. About 10% fine soft, no apples to a.	- 0.0 ppm
Comment:	substantial to rounded gravel. About 10% fires, soft, ramplestic Dark grayich brown (2.54 4/2) mm wass-graded sand with sift and gravel. About 70% very fine to course submodular to substantial loose and. About 20% fire substantial gravel. About 10% fine soft, no apples to 2.	- 0.0ppm
Comment:	substantial to rounded gravel. About 10% fires, soft, ramplestic Dark grayich brown (2.54 4/2) mm wass-graded sand with sift and gravel. About 70% very fine to course submodular to substantial loose and. About 20% fire substantial gravel. About 10% fine soft, no apples to 2.	- 0.0ppm
Comment:	substantial to rounded gravel. About 10% fires, soft, ramplestic Dark grayich brown (2.54 4/2) mm wass-graded sand with sift and gravel. About 70% very fine to course submodular to substantial loose and. About 20% fire substantial gravel. About 10% fine soft, no apples to 2.	- 0.0ppm
Comment:	substantial to rounded gravel. About 10% fires, soft, ramplestic Dark grayich brown (2.54 4/2) mm wass-graded sand with sift and gravel. About 70% very fine to course submodular to substantial loose and. About 20% fire substantial gravel. About 10% fine soft, no apples to 2.	- 0.0ppm
Commons: Scattered metal Completely in disturbed which has resulted y	substanded to rounded grant About 10% fires, soft, ramplestic Dark grayich brown (2.54 4/2) me wass-graded sond with sitt and graves. About 70% very fine to course substanded to substanded soft, mapped to a five soft, mapped to a five from soft	Track is balling, as balling,
Common: Scattered metal Completely in disturbed which has resulted y	substantial to rounded gravel. About 10% fires, soft, ramples to Dark grayich brown (2.54 d/s) mustingered sand with sitt and gravel. About 70% very fine to converse substantial to set and substantial from and. About 20% fire substantial gravel. About 10% fine soft, no apples to a.	Track is balling, as balling,

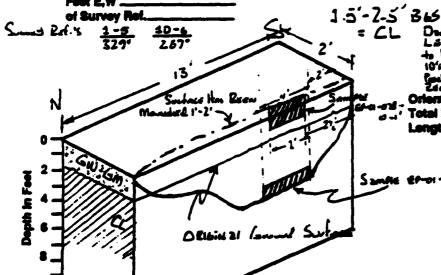
PROJECT NO. SPIZ 0120

SWIELDO: 1 Main Tomas	I down from De Karlo / P. T. Habert
	MET DE PROPERTY OF THE PARTY OF
	<u> </u>
DATE EXCAVATED:6/25/92_	
TIME EXCAVATION BEGAN:CEYS	
	link Fire both 76-40 mgh.
LOCATION OF TEST PIT REFERENCE PO	DNT:
Feet N,S	A
Foot E.W	N
of Survey Rol	
Sweet Printe: 1-5 10-1	
224 274	mounded cap
	2,
13	signal surface
5	
	Orientation = N-S
المالية	Total Depth a 5
	Length = /3
O Sul	Longui = 73
2	Í
5 7 7 7	
# 1 / / / / / / / / / / / / / / / / / /	
Para 17 4.05	
• 1 1 :	
10	
Z:	
SAMPLE	
LOCATION USCS	SOIL DESCRIPTIONS VOC METER
SAMPLE NO. (R.) SOIL TYPE	(color, % gv, % sa, % fl, moisture, plast.) READINGS
EP-01-CT7 - C-1' SW	Dank Stare Brown (2.54 3/1) day and C.C pam
Parel	
-	· humana di di manana manana di Sub-rivuda po de
	Sub-autora V. b. e. b. pe . and Cinete' Sauce Large: minus Sauce continued militabe
	Stady Luys; Million Sovi conflict million. Near S'ts file, but-revised Cornel; 4 feb
	Eurs, Alai - Pinta, Sotr. STRANG (Zincher
	"/ WLL .
EP-C1-C77-45'-5' CL	Dat Rouse (1076 3/3) maist Lane Oal O. D. Pom.
	with 5 and: Am. 75% - 70% facts, man.
•	With Study Ather 75% - 70% fracts mes. Playlisty, mosconials St. H. alar 75% - 30% V. fract to frai Sub-rounded to 10000000 roots to rome Some No Groves. Wenter reaction - 1 bill.
•	the face of face below and all the theman
	Fresh - broke Sode No Grant West
	reaction "I had.
Comments	
Also deleres en Ben Riside	enconstance or this Leasting Somete for 10-1
interest Currence abundant Plan	e encounteren or this Lection Somete from 0-1'

PROJECT NO. 2. JIZO

TEARLM BLASS I DEL

RF Horbert Inc Kryper SWMU NO .: . TEST PIT LOG: TP_ DATE EXCAVATED: 6.27- 72 TIME EXCAVATION BEGAN: JCCC WEATHER CONDITIONS: £10/CG.ST. 7C°F 30-40 mgh LOCATION OF TEST PIT REFERENCE POINT: Feet N.S . Feet E,W ..



Dear Bonn (1072 February Day Lame Light Aber 90% Lags w/ men. to hill Plantage men. still about 10% in the sile sile sile remarks goods - Landing Souly Notionally arms Contraction a North - South Total Depth = 5.5

Longth = 13'

Sample 81-01-078-5'-55'

SAMPLE LOCATION SAMPLE NO. (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS _(color, % gv, % se, % fl, meleture, plast.)	VOC METER READINGS
BAMPLE NO. (R.) EP-01-C78 - C-/	CM-CW	Dree Volenich Zonne (1078 fre) des) Lace - Corner Growel "15.17 + Some; Alen' 50's five to Corner revises to ent-possible Lace Corner ; Alen' 406 - 40's a free to Local Sub-ro-afel Street, with - provided; what 56-10's fives at Alen' - Provided; Soft. Street reaction "1861. More Sub-rounces, Colligs.	c.o ppm
El-1-1.76 - 5-5.5	CL	Duk Row (16th 1/2) much Lega Class with Same; what "D's-10th fores, mid. Prostates, and while about 20th 20th 10th in from to true Roule-Conden Suh" Vounded Sand. No Growel. Chemic reaction of the L.	C.C ppm

No debric on how Recilias of the Location,

2842.0120 PROJECT NO.



SWMU NO.:			
		EF. Hother D. Kingel	
TEST PIT LOG: TP	-01- 174	- Therefore Berger	
DATE EXCAVATED:	-29-42		
TIME EXCAVATION BEG	AN: 1515	/	
WEATHER CONDITIONS			
LOCATION OF TEST PIT	REFERENCE P	OINT:	
Feet N,S Feet E,W			
of Survey Ref		•	
ـ ماما ماما	D-L		
232.4' 25	570	2 1 Comet Mond	
_ 13.			
5		Orientation a MEITA	- South
	سر العراقير .	Total Depth = 7 q	_
0		Sample 10-01-07 -0-1' Longth = De /	3
3.7		ا/ سنة	
= 2 - Gu	منتعم للمرنيين		
	(Table)	/	
£ 1			
Popula in February		Samme EP-01- 579- 5.5'-6'	
6/-tz.			
(8-1			
	-GW-LANT	(1 +) que Brus (1012 3/2) dos unes - world Lunce	
70		("+) But Bound 1018 3/12 dot said - worded Laurel Silt = Stadi about 500 the to Corre Sub laste Laurel about 412-300 U-time to the Basis Laurel County about 102-100 fine et al Soft State Receive "/HC!	mindel
\		Paris Lander Court was 100 - 100 that	s; now Plants
CL Sandrewo. or 5.6.46	Re sour bit for	es, - 1 Soft Stant Readmon 4/16.1.	
SAMPLE	(6 Thus).		
LOCATION	USCS	SOIL DESCRIPTIONS	VOC METER
SAMPLE NO. (ft.)	SOIL TYPE	(color, % gv, % ss, % fl, moisture, plast.)	VOC METER READINGS
LOCATION		Dark Brown (10 Ye 42) Ley well-Contel	
SAMPLE NO. (ft.)	SOIL TYPE	Dack Brown Lio Ye Ve) Les well-Condell Grand Will Sult and Sand; should Sand	READINGS
SAMPLE NO. (ft.)	SOIL TYPE	Dack Brown Lio Ye Fr) Let well-Condell Conser with Sit and Sand; when You find the Conser Roman is the remarked of the Conservation of the Francis of the Conservation of the C	D. D PPM
SAMPLE NO. (ft.)	SOIL TYPE	(color, % gv, % sa, % \$, moisture, pinel) Daek Brown Lip Ye Ye) Ley well-Condel Consta with Sit and Sand; about 50% fine to Consta Romani is to - visualeo Losse Consta, about 40% U-hare to Carrier well-(avoid tarr 5 and, rounded to Site - vaniel.	D. D Prm
SAMPLE NO. (ft.)	SOIL TYPE	Dack Brown Lio Ye Fr) Let well-Condell Conser with Sit and Sand; when You find the Conser Roman is the remarked of the Conservation of the Francis of the Conservation of the C	D. D Prm
SAMPLE NO. (R.) EP-CI-079 - 0-1'	SOIL TYPE GW-GM	(color, % gv, % sa, % \$, molecure, place) Dack Brown Live & } deg well-Corded Grave with Silt and Smal; short Stro fine to Corner, short with the transmitted Love Gravely, short 40% to the to Corner Love Gravely, short Strad, resided to Gate Mart We fines, what - Planta, soft. Stemme Meart we fines, what - Planta, soft. Stemme Mearting Titel.	D. D Prm
SAMPLE NO. (R.) EP-4-079 - 0-1'	SOIL TYPE	(color, % gv, % sa, % \$, molecure, place) Dack Brown Live & } deg well-Corded Grave with Silt and Smal; short Stro fine to Corner, short with the transmitted Love Gravely, short 40% to the to Corner Love Gravely, short Strad, resided to Gate Mart We fines, what - Planta, soft. Stemme Meart we fines, what - Planta, soft. Stemme Mearting Titel.	D. D Prm
SAMPLE NO. (R.) EP-CI-079 - 0-1'	SOIL TYPE GW-GM	(color, % gv, % sa, % \$, molecure, place) Dack Brown Live & } deg well-Corded Grave with Silt and Smal; short Stro fine to Corner, short with the transmitted Love Gravely, short 40% to the to Corner Love Gravely, short Strad, resided to Gate Mart We fines, what - Planta, soft. Stemme Meart we fines, what - Planta, soft. Stemme Mearting Titel.	D. D Prm
SAMPLE NO. (R.) EP-CI-079 - 0-1'	SOIL TYPE GW-GM	(color, % gv, % sa, % \$, molecure, place) Dall Brown Live & feld bey well-Corded Grand with Sit and Small short stree fine to Comete Remarks to the reinted Laste Cornely, short 40% to the to Corne well-condul laste Stad, remarks to 60% - Market Report with fines, what - Planta, both. Standard reaction - Med. Dale Brown (10 We Its) days andy Lens Clob of Grandel; Alast 60%-65% foles, med. Plasticitys mas. Stiff to Siff, about 30%-25% U fact to fine Boots Corolei Sib-rounded Stand Alast 15% fines Sib-rounded	D. D Prm
SAMPLE NO. (R.) EP-CI-079 - 0-1'	SOIL TYPE GW-GM	(ODIOT, % GV, % 20, % 8, MOISELTE, PIECL) Dall Brown LIDYE 42 day well-Cordel Grand with Sitt and Small short stro fine to Cornel, short 40% there to corne well-condel loss Stad, resided to 60% - Model near with fines, what - Produce, both. Stand reaction - Med. Dale Brown (10 We I/s) day a sady Lens LIDD of brance; About 60%-65% foles, med. Plasticitys mas. Stiff to Siff, about 30%-25% U fact to fine Books. Corolei Sib-round of	D. D Prm
EP-01-079 - 55'-6'	SOIL TYPE GW-GM	Coolor, % gv, % sa, % \$, molecure, place) Dack Brown Live & Jes well-Conded Grand with Silt and Sand; about 50% fine to Consel Promise to the reinder Laste Consel, about 40% U. have to Consel Laste Consel, about 40% U. have to Consel Laste Consel, about 5 mile to 60% resided to 60% resided. About 10% fines, about Planta; bott. Stands reaction These. Dack Brown (10 me 3/3) day a sady Lanu Clay of promise; About 60%-65% fales, med. Plasticity 3 mas. 6th to 52/6 about 30%-25% U fact to fine Routy. Consel 5.16 resided Crank: About 15% fines Showanded to 60%- Authorize Crana. Stand Zearbies The 1.	D. D Prm
EP-01-079 - 55'-6'	SOIL TYPE GW-GM	(color, % gv, % sa, % \$, molecure, place) Dall Brown Live & feld bey well-Corded Grand with Sit and Small short stree fine to Comete Remarks to the reinted Laste Cornely, short 40% to the to Corne well-condul laste Stad, remarks to 60% - Market Report with fines, what - Planta, both. Standard reaction - Med. Dale Brown (10 We Its) days andy Lens Clob of Grandel; Alast 60%-65% foles, med. Plasticitys mas. Stiff to Siff, about 30%-25% U fact to fine Boots Corolei Sib-rounded Stand Alast 15% fines Sib-rounded	D. D Prm
EP-01-079 - 55'-6'	SOIL TYPE GW-GM	Coolor, % gv, % sa, % \$, molecure, place) Dack Brown Live & Jes well-Conded Grand with Silt and Sand; about 50% fine to Consel Promise to the reinder Laste Consel, about 40% U. have to Consel Laste Consel, about 40% U. have to Consel Laste Consel, about 5 mile to 60% resided to 60% resided. About 10% fines, about Planta; bott. Stands reaction These. Dack Brown (10 me 3/3) day a sady Lanu Clay of promise; About 60%-65% fales, med. Plasticity 3 mas. 6th to 52/6 about 30%-25% U fact to fine Routy. Consel 5.16 resided Crank: About 15% fines Showanded to 60%- Authorize Crana. Stand Zearbies The 1.	D. D Prm
EP-01-079 - 55'-6'	SOIL TYPE GW-GM	Coolor, % gv, % sa, % \$, molecure, place) Dack Brown Live & Jes well-Conded Grand with Silt and Sand; about 50% fine to Consel Promise to the reinder Laste Consel, about 40% U. have to Consel Laste Consel, about 40% U. have to Consel Laste Consel, about 5 mile to 60% resided to 60% resided. About 10% fines, about Planta; bott. Stands reaction These. Dack Brown (10 me 3/3) day a sady Lanu Clay of promise; About 60%-65% fales, med. Plasticity 3 mas. 6th to 52/6 about 30%-25% U fact to fine Routy. Consel 5.16 resided Crank: About 15% fines Showanded to 60%- Authorize Crana. Stand Zearbies The 1.	D. D Prm

PROJECT NO. 25... 0170

Sugar No. 1 Main De	moldon Aca.
	مين التعليد الت
TEST PIT LOG: TP	
TIME EXCAVATION BEGAN:	جميد الإنجاب المراجات المراج
WEATHER CONDITIONS: OVER Cast	Wind In The
LOCATION OF TEST PIT REFERENCE PO	MATE.
Feet N,S	<
Feet E,W	_ _
	* (
Suited Rodins 1-5 30-6	~ L
356° 312.5°	
a'	
l .	المرابع المراب
N	Orientation = N-S
	Total Depth = 8'
	Saffer Longth = 12'
	EP-01-080-0-1
Time Market	
5 2 - W. / / / / / / / / / / / / / / / / / /	
S T CC	Same ER-C1-000-6-6-1
CL	Same Short of a same
'7 \.	
10 7	
	-3 5') wet - world Sout Hound; Bur /10 42 5/8), day.
Sucs	about 18th five to Coans well-loaded Lace food i
	there will, I'm adversariable Great i alest Stademen -
0.41004	NOW-Plants Solt.
SAMPLE	SOIL DESCRIPTIONS VOC METTER
LOCATION USCS SAMPLE NO. (ft.) SOIL TYPE	(color, % gv, % as, % fl, moisture, plast.) READINGS
والتعيير المراجي والتعريب والتعريب والمراجية	
EP-01-010 - 0-1' Ghi-LM	Dock Brand (10 YE 3/2) degreed-broked D.D PPM Growell w/6:17 a Could about 50'L for to
	is setti sh. Emple to Zuntel Lang Conneti
	About does it four to Comer well towalist
	Sub-varied Soud, Lasti Alest Ste-ain times;
	wow - Plante , soit. Stanib reaction -/ALL.
EP-01-080 -6'-64' CL	Dank Zonge to the gre) mind Liene (120 - 1500), D.O FOR
EP-01-080 -6-64 CE	Dark Frank 10 48 Fe) mint Lean (129 w/Song) D. D. PPAN alor Frankly is me. shift; and 202 v. tor. Prankly is me. shift; and 202 v. tor. Prankly Condets experimental South Streets Exerting -1 MCL. No former.
	atent 202 v. feet, Papels-Complete superpuried
	Sould. Stealth Courting "I NCL. No formet.
Comment:	
Ne 41	hain material charged.
*** #6 <i>Pi15 & f</i> *	poin martipul chariered.

PROJECT NO. 2942 0120

TEST PIT EXCAVATION LOG James M. Montgomery, Consulting Engineers, Inc. 2 5 Herte = Och Kusi No SWMU NO.: . TEST PIT LOG: TP EP-CI-CFI DATE EXCAVATED: 6-36 72 TIME EXCAVATION BEGAN: 0545 TIME EXCAVATION BEGAN: WEATHER CONDITIONS: 5 mph veriable winds LOCATION OF TEST PIT REFERENCE POINT: Feet N.S Foot E.W _ of Survey Ret. N Sumes Ref.'s 10.6 267.50 Orientation = North - Sath Total Depth = 6 Longth = /4' Very morth-grayish bossin (1840. 70) I come lay with small. Marth, about 1867, trings, maderately shift, anderson to brigh potential shift, anderson was time subjected viry time subjected viry time subjected viry time subjected viry time. SAMPLE LOCATION USCS SOIL DESCRIPTIONS VOC METER SAMPLE NO. SOIL TYPE READNIGE (RL) (color, % gv, % sa, % fl, moisture, pl ES-C1-681 -C-1 Dark grayish brown (10 to 4/2) dry 1800 clay with swand. About EC 70 fines, medium to high plasticity, stiff. About 26 % poorly-yould very fine, sobremeled to subany lar sound. CL o.o ppm No grace !. No grace !. Dark ye Hewish brime (10 th 9/4) muist sandy here whay. About 60 to 76% fines, median phasticity medicately stiff. A last to 4 40% very fine to fine party-yrades! sulvenyelast to substanded sund. Er.e1-161. 5.5-6 CL ac pm Comment: No gross. Ne debine or evidence of burning electrical

PROJECT NO. 2. 113

James M. Montgomery, Consulting Engineers, Inc.

R.E. Hours / BC Knowle SWMU NO.: TEST PIT LOG: TP EP-CI- CFZ DATE EXCAVATED: THE EXCAVATION BEGAN:. EC'F 5 mot Su vials WEATHER CONDITIONS: L-11-645+ LOCATION OF TEST PIT REFERENCE POINT: Feet NLS Foot E.W. of Survey Ret. Very dark gray ish brown (1842 4/2) dry silly sand with gravel. About 60-70%, very fine to supple welling radial subgrayer - s. browner tops sand. About 25% has susuable grave. About 25% has susuable grave. About 5 fine susuable grave. Orientation = North - Sec +4. Total Depth = 5.5'
Langth = 14' 6741-082:5ª SAMPLE LOCATION SOIL DESCRIPTIONS VOC METER USCS SAMPLE NO. (RL) SOIL TYPE READINGS (color, % gv, % sa. % fl, moisture, plast.) Black (if the 41) moist ash. ASH c.c rrn About BC To well-graded maintaited sand, very fine to coasse, singular to substituted.
About 2670 fines, soft, computer. ac fra Brown (1642 5/3) moist silly said.
About 8670 very fine to fine postygraded subany-ber to substanded, bore SM EP-01-062- 5-5.5 rand. About sogo fines, soft, neaphorta.

Comment

A black burn zone was encountered from 1-2 BGS. Abundant charcont, mails, and come untermed wood were in this come.



4 1		,	
SWMU NO.: 1d		R.E. Hetst D.C. Kinnels	
	P-C1- CF	3	
DATE EXCAVATED:	(-27-	92	
TIME EXCAVATION BEG		76° F 16-15 mm 56 vind	
WEATHER CONDITIONS		tare.	
LOCATION OF TEST PIT	nerenerce ru	MT (
Foot N,S		•	
Feet E,W of Survey Ref		.1	
F20m 10-6		N	
123' £ 74°			
	A - A -		
	// 4.	and the state of the	- South
	." ,	Orientation = NOTPA	20012
	/ /	Length = 14	
0 -	A-//	/ J	•
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
= 2 - 1///	- un an		
	<u> </u>	/	
£ 4-6-71		•	
	The season of	İ	!
Depth in Fee	The last the last		
	! !		
·]	سلا!		
10 🖳			
	1		
SAMPLE			
LOCATION	USCS	SOIL DESCRIPTIONS	VOC METER
SAMPLE NO. (R.)	SOIL TYPE	(color, % gv, % se, % fl, moisture, plast.)	READINGS
EP-01-003-0-1'	<u> </u>	Vices Dret Corners Room (2.5 y 3/2)	O.O ppm
2. 2, 203-0-7	<u> </u>	THE Souls Lieu Clayli about Little Place.	0.0 pp
		40 Tak Sub-courses in Sub-course	
		Parly - Louise Sour about 6 to entermount	
		fine Corners. STRONG reserves "I Mil.	
5/01-683-4.5-5'	(ab) -/-M	DLIVE Promu LZ.57 4/4) moist wal-	
>1 41-682 TO TO		from house alking Cost and	0.0pm
		Grasso Grand w/ Silt o Cross about 50'10 fine to Lorette sub-revises du	• •
		romato. Luce Gract i about 40th wither	
		to Carrie with-records well-borres	
		Same: what 10% fines. war-Placker, Soft. Stand visual and "INCL."	
Comment:	à.		
No debra sa	conteres - To	10 2" - 2" of Comment Surface has been willy.	
dalulas_bi h	amy Véhile t	raffice has "taken Phulas" concietance.	
Wierde Professo	d Boom recibe	of Savace.	

PROJECT NO. 20. JIRO

SWMU NO.:	Procelled	Bun PON	<u> </u>
TEST PIT LOG: TP	EP-CI - CRY	/	
DATE EXCAVATED:	I ver has		
TIME EXCAVATION BEGAN:	6/27/92		
WEATHER CONDITIONS:	p. Clark	75° F 60°	· .
LOCATION OF TEST PIT REFE	REVICE POINT		······································
Foot N.S			
Foot E.W			
of Survey Ref.	1]		•
el Survey Rel Flor 1D-L, 234' @ 79'	IV		
236° 6 77°			
5	/ ,		•
	7	1	4/25
SM L'	المستعمر الأاء	7 Orlenta	tion = N-S
7		/ Total D	epth = _ E'
المسائد المسائ	1 5 3 ml	e fer-ci - Longen	= 12
سر تعرز		091-0-1	
		ļ	
7 2			
2 T/CL/24	- T	ı	
5 1			•
	Saufile H-	2-1.5'-	5
- GE-GWIT-		A.	a se de sal Brown (same M)
•		CL: YOY	Bark Granish Bown (18474)
101		moist Lane	way. Plaste, med-sliff

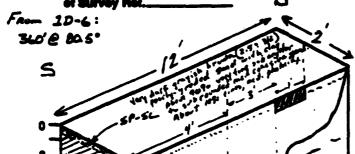
SAMPLE NO.	LOCATION (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % ea. % fl, moisture, plant.)	VOC METER REASONOS
€3-81 - D#H -	e-1'	SM	Vers Deal Corneith Rough (2.57 2/2) motor 6:173 Same, Man 1 200-70% to first do first Pauls-lorente Schromate Same, Australia 10%-46% first, Asso-to Low Plantic ty, coit to man. Cliffy w/25% first Cornel : Steam Reaches -/1821.	D.D.W~
E7-01- D 54	- 4 5'- 5'	Gw-GM	Dad Yatauch Por LID VE AN) most listed formers Grand with Eil T and Source. Ment before Dr. fine to Count storranges to Remote Letter former in About 200-20% fine to User fine Sib-torolak Backt-Los Grand, Abut VEV-15's fines, About Physics Sibt. 45'count Resolution - 1' Well.	(1) الشعب

Comment: No deliver Excountered at The Larnhold.



Hersellant Born Pons SWMU NO.: . TEST PIT LOQ: TP DATE EXCAVATED: 1225 THE EXCAVATION BEGAN! SHIF S. BOOTE LOCATION OF TEST PIT REFERENCE POINT: Foot N,S .

Foot E.W .. of Survey Rel.



Saure 2-01-085-0-1

Orientation = N-S Total Depth = 5 Longth = 12

Ac **2**-0.085-4.5 -5'

	SAMPLE
	LOCATION
SAMPLE NO.	(R.)

EP-01-085 - 0-1'

UBCS SOIL TYPE

LL

SOIL DESCRIPTIONS (color, % gr, % co, % fl, me

VOC METER READURA

1260 Due Correct Brans (2.57 42) mist Lient (124 with Sous; about 752 Frass us/acc. Photostay acc. 67: FF: about 250 y. Fras 40 Fras Sub-named Books Commen Sousce No Growel. Steam Meaker "INCL.

0.0 mm

0.0 pm

EP-01-085-4.5-5

Vers Dul Louis Burne (1042 3/5) most 5 suld Law Class about 650 frees plants. Producted mos. Still: About 356 viting to

fore sub-revuled Posts formers Sous. STRONG RESERVE -/ HEL.

No debra excenders at this Location.



Procellant Buto Per TEST PIT LOQ: YP _EP-41 - C.E.G. DATE EXCAVATE: 6-27-92
TIME EXCAVATION BEGAN: / F & WEATHER CONDITIONS: /art/y cloud LOCATION OF TEST PIT REFERENCE POINT: Foot N.S Foot E.W. of Survey Rol. SP-SL (0-4" BLS) Done Zow (102 4) From: Surey Pout 10-6 Pareles-Grace Said 7/6/20. what lefts it fire its from the fire the fire the same of the fire 480°@ 81° N Ma North - South Total Depth = 5.5" Samle 61-01-036-5'-5-5' 5 --- fix 47-01-086-6

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE		DC METER MADRICE
EP-01-026	· D-1'	SM-CCOM	Dank Rowal 10 98, 312) des Sille Song; Alast 70% Peatle Green or fine at the Sul-rowante Sonte; about 80% forth with Law Photocies on meter Products; 1980, Stell. Med. Chelics. No Grandle, Stene Render of Mel.	0.0
£₹•01·D 8 6 •	- 5′ - 5.5′	CL	Deal Helenth Rown Liote And most Lane Liss -/ Source what 956-30% Rati with most to broad Probably mas suff;	D-D ===

with men to broad Probables men shift; what 15's 20's village to four sit-remove feeds Grace Some; no former breeze Booken -/HLL.

Comment:

NO debre in Treach; love provenest Council were families someter Book for 10-1' Somete:



Feet N.S _____

Orientation = Nerth - South Total Depth = 5.5' Length = 1/

SAMPLE NO.	SAMPLE OCATION (R.)	UBCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gr, % sa, % fl, moisture, plant.)	VOC METER REAGNICS
Ef-01-087 -	0-1	SM	very dark grapish train (1012 3/2) by silfy sand. About 60-70% very fine to fine whomples to whomple poorly-graded loose sand. About 25.35% times, soft, neaplestic. About 5% fine substanded grand.	0.0 ppm
er 01-087 -	5-5.5'	ML	Dark brown to brum (1018 \$5-2/5) Sandy sitt, must. About 60% fines, low to medium plasticity, moderately slift to stiff. About \$670 May fine to fine poorly-yroded salamular to subrounded sand. No gravel.	O.O pem

Comment:

No debris or born zone encountered in pit.



SWMU NO.: 1d	Presillant Burn Pens PRU/DEK	
TEST PIT LOG: TP _EL	-c1-68F	
DATE EXCAVATED:	6-28-42	
	12 Clear FS F 5-16 ach swind	
WEATHER CONDITIONS:		
LOCATION OF TEST PIT I	pw.ih Gra	wat L
Foot E.W	N 0.6" SM were That Grant Rom (1042)	•
of Survey Ref	A des 6.145 Source fabric 1972 V.	. j Ime
Fage Corred Marker 10	w: A Sub-aub. will	ı •
330' 251"	for Sub-coming to Form a few 25%	•
e 10	Survey 15 to Beauty 15 to Fuel Line Law 1864 Fuel Line	
3	Orientation = North - South	
	Total Depth = , G.S	
	Length = /C	
ن ا	SM-MK 20-01-088-0-1	
	' · /	
	The same of the sa	
	Sample EP-088 - 6'- 6.5'	
		4
3 ************************************		•
10 —		

SAMPLE NO.	SAMPLE LOCATION (RL)	USCS SOIL TYPE	SOL DESCRIPTIONS (color, % gv, % sa. % fi, moisture, plant.)	VOC METER READOGS
EP-C1-1.68	- 0-1'	SM	bory dark gravish brown (1042 4/2) dry sitty saked. About 75% only fine to madism subsupport to rounded well-graded hose same. About 15% fines, soft, monthstic. About 10% time subsumed to subsumed to	0.0
EF: CI-068 Comment:	-6-6.5'	GW-GM	Dark yellowsh brown (1042 4/4) maist well-product gravel with silt and sound. About 50% fine to course anyther to rounded lowe grand. About 16%, yellow the grave meanyther to rounded manythan sound. About 18% fines, soft, nonplastic.	C-O ppn
	ور وسلماء في	cal calan	Lan som Eurondesen	

SWMU NO.: 1d For // TEST PIT LOG: TP EP-0/-0.59 DATE EXCAVATED: 6-22-12 TIME EXCAVATION BEGAN: 625 WEATHER CONDITIONS: Settle of LOCATION OF TEST PIT REFERENCE Feet N.S		
Foot E.W of Survey Rel.	Orientation = 16/1/2 - So Total Depth = 5 Length = 10'	M
Don't like the second s	Secretary of the secret	
SAMPLE LOCATION USCS SOIL TYPE SP-01-009- 0-1' SM		VOC METER MEADINGS C. G ffm
1981-089 - 45-5' CL Comment: Minor metal fr	Brown (1818 4/5) moist teen clay with sand. About 7576 fines, moderately stiff, modera plasticity. About 2570 very fine to line subsequent to subsequently graded sond. No proval. Ingular Scattered throughout p.t.	0.0 pm

PROJECT NO. 28-4 6120

Clister Bounds AREA Exhibited lickering SWMU NO .: . TEST PIT LOG: TP _E[-[1-696 DATE EXCAVATED: _ 4 - 3c - 72 5 mch WEATHER CONDITIONS: __Carried I LOCATION OF TEST PIT REFERENCE POINT: Feet N.S . Foot E.W _ of Survey Rol. 19-3 Swess 12el.'s 115 26.5 Ent - west Orientation = A Total Depth = . 5,5 Longth = /3' Light clies trans (2.57 5/3) dry sawly self. About 70% fines, low plusticity, soft. About 22% very fine, purtyry school sand no prace !. LOCATION VOC METER SOIL DESCRIPTIONS USCS SOIL TYPE SAMPLE NO. READINGS (color, % gv, % sa, % fl, moisture, plack) C.C ppm ES-61-090 - 0-0.5 CL DUTK From (10TR 3/3) diy sandy lean stay. About 6-676 firms medium plasticity, stiff. About 76 76 inc to cary line poorty-product surangers. To subsended sand. Albert 1870 line sobragely to service years! SP-SM Light obichown (2.57 sts) must O.C ppm Er-01- 090 - 5-5.5 party-graced sand with silf About 90% tory-fine grammed substanted to subscription torse sound. About 15% times soft," .waplastic . No evidence of debris or hom zone Miner metal fragments and fise parts in

PROJECT NO. 2942.0120

Closter Demt SWMU NO.: __ El-11-691 TEST PIT LOG: TP__ 1: 30 - 12 DATE EXCAVATED: __ TIME EXCAVATION BEGAN:... 15-15 infl 15°F much WEATHER CONDITIONS: Legist LOCATION OF TEST PIT REFERENCE POINT

Feet NLS Foot E.W. of Survey Rei.

É 7-4 Sumer Refr. 18-3 118.5 30.5

Orientation a East- west Total Depth . 5.5 Longth = /4

Sz. 16 er- 691-0-05

EALTHON SENGING ELICIA SOUTH ELICAL - 1,-1,

very said grayish brain (will the) dry sandy loan alay. About with their stiff medium plantish, when top very find to find, poorly-graded, subangular fu subrounced Eared. No grove!

Sandle in angles!

SAMPLE VOC METER LOCATION USCS SOL DESCRIPTIONS READINGS SOIL TYPE SAMPLE NO. (R.) (color, % gv, % as, % fl, moisture, plast.) very dork gray ish brown (10 4 1/2) EP-C1-C91 - C - 6.5 CL_ C.C IPM

dry least lay with rend. About 1876 fines moderately stiff to still medium plasticity. About 2590 posty-yrodod, early fine. who should be submitted to submitted would, No grover.

284 6 70-7L

EP-01-091 - 5-5.4 C_

Light olive brown (see 2.54 5/3) moist han aby with sand. About 80% fines incline plantiaity, mobile toly stiff. About 20% very-fine, poorlypresent, seconsular to substantial se

men of boulfiles Present Looks.

Comment:

metal

C.CIIm

R.F/Dex SWMU NO.: P-01-092 TEST PIT LOG: TP THE EXCAVATION BEGAN: DATE EXCAVATED: 55'- 10' T. LOCATION OF TEST PIT REFERENCE POINT: Foot N.S. Foot E.W . E of Survey Rel. Suus Rdie 1892 Suntan Metal Fragments 5-01-032-0-1 Explosing Reaches L Orientation = E-W Total Depth = , 5 k. Length = |L| e EP-01-092-0-1 Sample EP-01-092-5'-5.5' AMERICAN TONDOS OF PROVINCE CONTRELO FIR Malacest

SAMPLE LOCATION SAMPLE NO. (R.)	UBCS SOIL TYPE		OC METER READINGS
E7-01-092 - D-1'	SL	Dad Prime (1074 31) des clases Sages about entre Posts / render stime to the submidular roudel Manifestics Small; about 400 fines with lay tomin Planticits and golf to man still 45% fine showfull layoust; steel Reaction // Mel.	D-0 79m
EP-01-092 - 5'-5.5'	CL	Dock Brown (1042 312) mont Could Land Class own toth house whose Prochest, Soot to man with, about 30% also-broked. U. how to wall to the auction South what We fall the exampled formers. Stone to Reactor - 1 tall.	0-0 Pm

Commence Scatteres Metal Franceste Housbor Pit.



SWMU NO.:	FP-:1-C 1 Tuby AN: J C	Boil Ares Dex Rith 1992 245 SS F ONT:	
Depth in Feet		Orientation = N-5 Total Depth = S-1 Langth = 14	
SAMPLE LOCATION SAMPLE NO. (R.)	UBCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % se, % fl, moisture, plast.)	VOC METER READINGS
£1-01·€73 - 0-1'	CL	Very Drak Corach Rome LIDYA Fall dis Soudy Lime (124; ober terchis, fints willow to other that the total to make Stiff; about 25'-W Parks Coraco of the to fint sob-verify to sob-automa Sous. No Corach - Stage Restor - 1861.	D.D rem
EP-01-093-4.5'-5'	CL	Light Dlive Brown (2.57 \$13) moint Learn (2.73 "I Same; about D'orfines when to meaning Radium, such Still; after John Johns to fine, a mobil-formless sub-roussed Same; ale Lawel. Steads Reader "I Hel.	D-D rem

Commont: Scatteres metal fragments.



SWMU NO.: _ DATE EXCAVATED 15 1-1-92 TIME EXCAVATION BEGAN:... WEATHER CONDITIONS: Lainy 5 man west wind LOCATION OF TEST PIT REFERENCE POINTS Foot N.S Foot E.W. of Survey Rel. Survey Addist 19-2 Orientation = East-Lucs+ Total Depth = 5.5'
Length = 14' Sault = - 01- 07+-0-1' -ALST-01-074- 5'-5.5' LOCATION SOIL DESCRIPTIONS VOC METER USCS SOIL TYPE READDIG SAMPLE NO. (color, % gv, % se, % fl, moisture, pis EF-01-674- D-1' Dall Crosial Rand (251 42) dal 0.0 m الأن ، ١٤٠٠ كا علانا هاستا " ١٤٠٤ - لمانا Since -/mas Floodswitz 1800 - STiff , alpot 1820-1856 without the Line School Ends Could Soul; 14 Les Chom. Correct. Ceme Books 146. Drak Pour (10 K 34) maint Lease clad with Eases; star 300 75% has wises. to the Plantant, page. Still; start 2% - 20% reple- (and all gale-results of these to their space). EP-M - CN - 5'-5.5' a.o ppm D Corand. Stank Encenteres fire at 2' 365; sentens Lance (4"70" de.) metal Amende

TEAD-N PHASE 1797

DEL /REH SWMU NO.: TEST PIT LOG: TP DATE EXCAVATED: TIME EXCAVATION BEGAN:. WEATHER CONDITIONS: LT. Knin LOCATION OF TEST PIT REFERENCE POINT: Feet N,S Foot E,W. of Survey Ref. Sumon Roles. 11-2 14' 313 E Orientation = E-W Total Depth = 71/2 Length = 14' EP-01-095-0-1 Saute EP-01- 095 - 7'-7.5'

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE		C METER EADINGS
ep-c1- c55 -	D-11	54	Uses Deat Crosich Brum 12.5 v 32) MOIT Clasted Sano; shut with 200 122 in the to make the resolution of the tomother than the love to make the content of the transport of the	D.D 18m
£8-m-095-	· 7 '- 1.5'	CH	USES DANK Granich Room LIDYE St.) MOST to WET FOT Clas with Same; About 25th Ames - high Physicital Stiff; about 15th Pools-Summer v. hote to fine sub-rounded to sub-autoloch Same; AD brands. Stead Recodum "Mel.	D.D

Comment

Encounteres Unbravo wood Franch, mutor frances to, metal banders.
Some francis motors were ables in both a was included in
Samples from 7'-7.5' Ros. This location may have Record
a Large Automation France which was used for Assess of Automs,
and then boundfilles.



SWMU NO.: TEST PIT LOG: TP_ DATE EXCAVATED:_ TIME EXCAVATION BEGAN:_ WEATHER CONDITIONS: Tothe cland 5 min sice Towns LOCATION OF TEST PIT REFERENCE POINT: Foot N.S Foot E,W. of Survey Ref. 7 South of 10-01-003 E Orientation = East- west Total Depth = 6.5 Longth = 15 Avea st Radha Zohus! ĕp-01-203A - 6'-6.≤' VOL/SHOS 10

SAMPLE LOCATION (R.)
EP-61- CC3-A - G-6.5

USCS SOIL TYPE SOIL DESCRIPTIONS
(color, % gv, % sa, % fi, moisture, plast.)

VOC METER READINGS

D.0 AM

Comment

ENCOUNTEREUS COMER Sherbub, Ammo CARS, A Coulen Dave. Bondon in Mores ni, 1005. Parline Biele, Sins.



SWALL NO.:	Man Donalition AvEA	•	•
TEST PIT LOQ: TP_EP-C	1-CCF-A		
	2-72-		
WEATHER CONDITIONS:	Clear 56. F	1-15 1906 Su air	•
LOCATION OF TEST PIT RE	PERENCE POWT:		
Fact N,S Fact E,V	**************************************	•	
of Survey Ref.		•	
Locates 51 Such of El-01-	cool	•	
	T/V		
W 11'5			•
	-l'A	Orientation = Eist	- west
		Total Depth = 6.5	
0	. 8	Length = 2/	
· -			
¥ 2-	· 1		
	14		_
and the state of t	Sample	# # 1- DOBA - 6'-6	1/2
8 6 7			
10 🛨			
10			
SAMPLE LOCATION	1000 000 I	ESCRIPTIONS	VOC METER
SAMPLE NO. (R.)		se, % ff, moisture, plant)	READINGS
EP-C1-CCE-A - 6-6.5			C.C ppm

Respensed EP-01-008 to obtain voc and Seni voc samples. Encountered reliant zone in west end of trench comprised of large pieces of metal debris. Moved east 6-10', excavated to 6.5 ft RGS and obtained sample.

TEAD-N PHASE I RET

SWMU NO.: . EC-C1 - C11 - A TEST PIT LOQ: TP DATE EXCAVATED: TIME EXCAVATION BEGAN: 16-15 mgs LOCATION OF TEST PIT REFERENCE POINT: Foot NLS E Foot E.W. of Survey Ref. Lacres 15" south of ED-01-011 Orientation = East - Liest Total Depth = 8' Length = 14' - Thelons / Run Aven -5:-6' VOC/6VOC Samle 19-01-000- 71/21-8' Succe /Subce There

SAMPLE NO. (R.)	USCS SOIL DESCRIPTIONS SOIL TYPE (celer, % gr, % ea. % fl, meleture, plact.)	VOC METER READINGS
El-01-011-4 - 41-41-1		0.0 mm
EP -01 - CIHA - 5'H'-L'		3 · 600m
El -oua - 7'h' - B'		D Brow

encounteres when food delais 4 Run Regular from 2'- 5 865.



TEST PIT LOG: TP DATE EXCAVATED: TIME EXCAVATION BEG		ou/ EN	
WEATHER CONDITIONS: LOCATION OF TEST PIT! Foot N.S Foot E,W of Survey Rol. LOCATES 5' WEST of	REFERENCÉ POINT:		•
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Orientation = N-5. Total Depth = 8' Length = N'	
SAMPLE	Ozaizes Metal. Aci	ال انتنا د .	
SAMPLE NO. (R.)	USCS SOIL DE SOIL DE SOIL TYPE (color, % gr, % es	SCRIPTIONS , %, fl, moisture, plast.)	VOC METER READMOS

EP-01-025A - 7/2-8' O.D FM

Exemperes : with south side at Preus treach; Abandart metal a Lune debre.

SWAU NO.: 16 B.	Page 5 DEE / BK	<u> </u>
TEST PIT LOG: TP		
WEATHER CONDITIONS: P.CA	4. Knows for smath 95°t.	
LOCATION OF TEST PIT REFEREN		
Feet E.W	N	· •
	Estheria Pentha	5 Sante 6-4-090-1-2'
. 8'	S.	Me 2-41-096-3.5'-4'
S	Orientation :	
The state of the s	Total Depth a	የ የ ኢ '
	47	Bru/Debris
三十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二	Trans Produces Dune (2 00 3)
F. THIMING		
	Same 60-01-006 -	5'-5.5'
10		

SAMPLE NO.	LOCATION (R.)	USCS SOIL TYPE	SCIL DESCRIPTIONS (color, % gv, % so, % fl, moisture, plast.)	VOC METER READINGS
EP-01-09	6- 3.5'-4'	CM	(10 th di) year tot. Gras. slick the moiet, house title Sour; about 100 u touse, v. fine it asserses, entranches; when the fines were Plantin, soft. these Reservan wills.	D-D rrm
5?-01- 076	\$- 8 .5'	SM	(101241) look yellowsh bread, slightly most. Loose silly card, style send, 20-26% send, we playinty, soft. >and - Inc to medium, sub-angular. Group remotion by thes	9-9 t/m
8	lates Motor L-an Prose	tal. 2 m. i dile. a tr	or development. Encombreo steel 3 crushes done Druss 1 2 cleshes 1 ms forms associate 45- set drug retuing	hadd . a

Charce 31.

SWEEU NO.:14	Ruen Pad	DEF / 13KH
TEST PIT LOG: TPE	P-8-097	
	-5-92	
TIME EXCAVATION BEGAI		Some State (10-15 and) BE 5.
LOCATION OF TEST PIT RE		
Post N.S		
Foot E.W	N	₩
of Survey Ref		
		Selly down R
~° w		Stalty. descent Brand (Section ?)
SE ///		
	<i>J</i>	Ortensation = Nul-SE
رن مسلم		Total Depth = 65 'Langth = 14'
0		7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
ر المرابع		SAME EP-4-057-0-1
8 2 -		
וויועמאטוב־ בּ	: <i>L</i> -	_ 1
	14.	Same EP-01-057-6'-6.5"
s -#+LHLFII(II /m		
•		
-		•

SAMPLE NO.	LOCATION (R.)	USCS SOIL TYPE	SCIL DESCRIPTIONS (color, % gv, % se, % fl, moisture, plant.)	VOC METER READWOS
EP-01-047		SM	1648 4/2, fork grayed brown, -30%. gravely 15-20% touch purfores, 50% sends Bracel - + we, \$46 - round Sends- very first to correct, sab- angular. No so how plasted ty, soft. Dy. Sity sano.	0-6
Comment:	17 6-65'	sm	164R HY, dark yellowed browns 5.047 Charmon, 15-20% sours, sollocand. No plesticate, soll. Sand- 18 foots to makenes, sub-competer	
(arti	debons or La Enhant der ocises!) more	m resione m at treat	Notes, that Sail does norma the Came aliest doubled brand 265, or 5' from 6E 840, and	disturbus

PROJECT NO. A. 129

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % es, % fl, moisture, plast.)	VOC METER READINGS
EP-61-018	0-2'	SM	104843 dock boars, 45-106 graves	0.0
			55-60% sand, \$5-40% fines, day,	
			Ism to no plasticity, soft. Siffy some. Greet-fine to course, sub-road.	
	9 5.5-6'	5 -4	Sand - Sure to medium, sub-angul to sab - round: Weak HEI render	
Z7-01-09	7 ,	> m	15-20% 4.wes, 80+7, sand, box,	ed, 0.0
Comment:			or plosticity, soft. Sand is fine Engaler to solv-angular. Strong pi	salysana. Is ol readled.
No	debris oa	buen '	Recious Notes Have.	

SWMU NO.:1 b	Buen Pad	DCK/RKH
TEST PIT LOG: TP	B-5-12	
DATE EXCAVATED: TIME EXCAVATION BEGA	v. 1030	
WEATHER CONDITIONS:_	Clin Keen	5. 5. th (10-20-4) 85%
LOCATION OF TEST PIT R		the state of the s
Feet N,S		
Foot E.W		
of Survey Rof		•
•		School Brown (10th W) det Lane
		SM sixth Sail that 18% Provide Greate
		Most 30's finish above to finish the
E		Suff.
		Orientation = NW-SE
		Total Depth = 10'
0 -		Length a 18'
= 2 - III	34	/^
	المسر المتحلط	
		Sz-pk 60-4-04-7'-7.5'
	120000	
ま・引出 一		- Bury Debris Liver
	E.	wite 68-01-049-9.5'-10'
10 364 (1/1)	/ / / / / ***	ME 84-81-021-2-2 - 10
1964UIII - 1		
	-	i

SAMPLE NO.	LOCATION (R.)	USCS SOIL TYPE		C METER EADOIGS
E1-01-049		ML	[6482/1, black, grevel <570, send 456 fives 50%. No plantish to low plantish, South 15 vary from to vary course, sub-angular. Grand 15 fives, sub-angular. Sandy 511t.	.00
EP-01-097	95-10'	SP-SM	SAND 1527, EMPS 10-157.	
Comment:			No placement, cont. Day. Poolity Graded Sand my sut. Sand is New Fire & Pare, Inches.	
Eucan Milli	HEAEO AL	what we no caus 4	n smile Canistells, a Financutulos had Lias, met 31 Fracments.	l, chand,

Burn Page Der / IRRH SWMU NO.: .. TEST PIT LOG: TP. EP-01-100 DATE EXCAVATED: 8-5-92 THE EXCAVATION BEGAN: ... 90° F. T.STAMS LOCATION OF TEST PIT REFERENCE POINT: Foot N.S Feet E.W. NW of Survey Ret ELMosive Reachuity Smalle EP-01-100-Z'-3 SE Orientation = NW - SE Total Depth = 5% Longth = 15' AND THE 5 mile El-01 - 100 - 3' - 3.5" Saure EP-01-100-5'-5.5'

War zon Developement - Publish Plats

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE		OC METER MEADINGS
EP-01-100	3-3.5	ML	104242, very dark grayak browns 1526 Gravely 30% seeds, brooks from.	*••
			Bry, I am plastedy, soft - Sandy sur.	
			Sdaß - vary functo Fire, sub-dayah to Sub-round.	

ER- 02- 100 51.55' Sp-SM

1042 SM. Yellowish Bear M. O'le Grant 5 And 80-1010 Eines 10-20%. No Plastury, soft, glightly most to days poorly graded sand up sit. Sand vory five, angulate tob rangular.

ENCENTERS 1'-2' Thire Burn / Delon Losee -/ motor From. 12ths Comments.

w/: - dh

Buns Pros 16 DUL / REH SWMU NO .: _ EP-01-601 TEST PIT LOG: TP. DATE EXCAVATED: TIME EXCAVATION BEGAN: __ WEATHER CONDITIONS: C'CAL/ WIND BROW SOUTH & 20 K LOCATION OF TEST PIT REFERENCE POINT: Feet N,S SE Foot E.W. of Survey Rel Sures Refs 162.3 NW Orientation = NW- XE Total Depth = g Longth = 21' , # 4' Burn Debic Zune Sauthe El -01- 101- 7.5' -8'

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE		ADNIGS
E7-01-101		SM	14231, very dak green, 25% green, 157, -766, each, 2570% foots, dry. 5, 144 5 eros. 5 eros-very foot to the fact, 5 ab-round to sub-angular. No plantisty, soft.	0.0
BB-01-10	1 117 0		104R b/4, I 19ht yellowsh brown, Oto gravel, 60% sand, 40% fires. Law plasticity, 1 on to moderate stiffacts. Sitty sand - Dry. First sand - angular to sup-associate.	6.0

Encourteaso area at boules reforal in New and of Travely from Thurd fut bandone material charcol, Achs bandone wires a 50 gol. ordized bulet, 5"-12" botts, smalle Consisters, and Small- mans CASINGS.

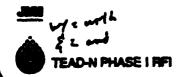


TEAD-N PHASE I RET

DULL BEH SWMU NO .: . EP-01- 102 TEST PIT LOG: TP. DATE EXCAVATED: 8-6-42 TIME EXCAVATION BEGAN: ____ LD &P. Clear, 55° 5 Rosses from WEATHER CONDITIONS:. LOCATION OF TEST PIT REFERENCE POINT: Feet N,S SE Feet E.W. of Survey Ref Survey Relis' 16-7 Slighty Mandel Suntage NW Orientation = NW - SE Total Depth = 10 Length = 14'Sample El-01-102- 2.5-4 (APPERL) Same EP-01-102-9.5'-10'

SAMPLE NO.	SAMPLE LOCATION (fL)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % ea, % fl, moisture, plast.)	VOC METER READINGS
2 7-01-102	35-41	38-5m	lote 42, dork graph brown, L57, grazel, 100% some, que, sinus. Low Plasticity, Low stillness. Some is very sine to pince, such assertate. Dry, poorly - graded Sout -/5:47.	0.6
EY- 01 - { 6 간	4.5-16	5?-Sm	104R4/2 dak grayth boom (5%) Graves, 60%, 500%, 75-46% FORES. Lew Teophician of 57, specess. Dry. 500d- sery fine the way sub-angula profy-y-add Such models.	w. 0-8

Encourteres banding stratting + wite, many caus, 2 Coulon 55-and dump non becites Curs. No evinence of Ath or Chancel. This Exercation but into the North Elve of the Previous debut treat.



DUK / BKH SWMU NO .: . TEST PIT LOG: TP EP-01 - 103 DATE EXCAVATED: 13:00 TIME EXCAVATION BEGAN: Gusto was for 5 ook to 24K clark **WEATHER CONDITIONS:.** LOCATION OF TEST PIT REFERENCE POINT: Feet N,S SE Feet E.W . of Survey Ref. NU Orientation = Nw - SE Total Depth = 642 Length = 15' GP-01-103-6'-6.5'

SAMPLE NO.	SAMPLE LOCATION (ft.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % sa, % fl, moisture, pisst.)	VOC METER READINGS
EP-01-103	0-1'	sm	104242, dark grayth brand, Oh grand, ff h same, 45% fines, Dry. I am platters. Sand is york to be to sub-round to sub-round to sub-round.	0-0
E8-01-103	6-65	SM	104244, light yelloof how, dry, 0% brood, 278% rand, 30% fire. Low planticity, low status. Silly sand Sand is fine events, sub-angular.	D.0

Commont: No debris as burn & violence welices. Trend exemptes in Lau-Little Presidence or "Lauson". arka.



OCK/BLH SWMU NO .: . PP-01-104 TEST PIT LOG: TP_ 9.6.92 DATE EXCAVATED: TIME EXCAVATION BEGAN:___ **WEATHER CONDITIONS:__** LOCATION OF TEST PIT REFERENCE POINT: Foot N.S Foot E.W of Survey Ref. ELMONING REACHURS Smille G-01404-1142' b Orientation = E ~ W Total Depth = 4 Longth = 15 Sample EP-01- 104- 3'-4' Septh in Fe 53-114 El-01-104-5-5'-L' an material or Loud Mine Pressure Plates

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % sa, % fl, meisture, plast.)	VOC METER READINGS
E1-01-104	3-41	ML	164 R.Ys., brown to darkboard 0% grands 400 sands, 60% from, law plasticule, tow stifferes, dry, Sanday Sott.	9 ·0
E8-61-104	45.5-6	T SM	love led, light yellowed brown, of greet, to 1966 sand, so-40% from, the law status. He to low status. Log. Silty sand. Sand is very fine sub-angulas.	•••

Commons: Encountered bondison strass (class) a mountant Loud miner
Pressure Plates. Manuatic traverses mesons this Locations Lous
"5000 + 9".



TEAD-N PHASE I RET

Dex BLL SWMU NO .: _ TEST PIT LOG: TP. E7-01 - 105 8-7- 92 DATE EXCAVATED: 0820 TIME EXCAVATION BEGAN:_ WEATHER CONDITIONS: 2. Charles, 60'F. Schilled & 20 min LOCATION OF TEST PIT REFERENCE POINT: Feet N,S Feet E,W. of Survey Red Survey Ret. 15 90' e165' from 18-1 Orientation = E-W Total Depth = &' Longth = 14" Bur / Delmis Zone Sample El-4-105-5'-5.5' Same 8-01-105-7'-8'

SAMPLE NO.	SAMPLE LOCATION (RL)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % sa, % fl, moisture, plast.)	VOC METER
E1-01- 612	5-5.5 **	ML	1042-12, very declarant, 18th grands 300 sands, 50% frues. Low plantists, low statements dry. Gamely-sit sun Sanda Sit. Sand-very fure-to-fuse, 5ab-angular.	6.0
		See - 4/	invalidy, vellowed brown, 45%	

Eb-01-001 1-8, 2w-20 1Eb-01-001 1-8, 2w-20 104A 10/4, yellowed brand, ctb grand, ctb gr

Machetic Turnerse at the Lacation chair 5000+6. Debric excounteres includes 155 mm. somes caucides, bandon Role a wirs, N211. Charcost, Ash.

REAL / TELE SWMU NO.: _ 2-01-106 TEST PIT LOG: TP_ 8-7-92 DATE EXCAVATED: 0255 TIME EXCAVATION BEGAN: 55° F. WEATHER CONDITIONS: 1 Chantel So Wind 15-20-4. LOCATION OF TEST PIT REFERENCE POINT: Feet N,S E Foot E.W. Horzactal Scale Compressed - of Survey Ret on Emt Eno. W Orientation = E-M Total Depth = 9 Longth = 24' Area of incineration Sum Arms (30-50 cm.) mm. How Sample 127-01-106-5'-5' -106- L' - 6'A'

SAMPLE NO.	SAMPLE LOCATION (fL)	USCS SOIL TYPE	SOIL DESCRIPTIONS VOC METER (color, % gv, % se, % fl, moisture, plast.) READUGE
EF- 01-100	6-6-57	WF	10423/5, dark bland bet to signify 0.0 mouth, 15-20% Gravel, 37%+000, 45%-5% Grave.
			Nove to Law Glasticity, Low Strongs.
	-1		SAND SILT W/ GRAVEL. SAND VERY PLANT TO WOMEN, SUR-CORNELLE. GRAVEL - FLANE & CORNER SAND-ROLLED.
EP-01-106	* -9'	SM	1848 5/4, yellowsh brown, dry-styddy 0.0 mowyrshadd grown, 600 sand, 4000 400 styrness. Now to Low Plasticity, Low styrness. sand-very fine, sub-onyda. sury sand.
Comment:			

Maphetia Traverse at this Location shows \$500+4. Debru four includes 112"-2" etect Project etect Boulous, about and anno (20-50 cm) increased musicipals (in Leus), a 3-5 cm. Crubon solventill or Pradit Canj finer Places anno Com Lios a small rum rumo Cost. USB contractor ctutes this was Probable a Small from illineration 7:7.



Der/Blet SWMU NO .: . 17-01-107 TEST PIT LOG: TP. 8-7-92 DATE EXCAVATED: __ TIME EXCAVATION BEGAN: 1230 mm.
WEATHER CONDITIONS: P. Clarks 1 90° F. 7. 57885 P.M. LOCATION OF TEST PIT REFERENCE POINT: Foot N.S . Foot E,W. of Survey Ref. Delan Laven Orientation = E-W Total Depth = Length = 5-ME ER-01-107-1-5-2 Sante 168-01-107- 5'-5.5'

SAMPLE NO.	LOCATION (RL)	USCS SOIL TYPE	SOIL DESCRIPTIONS VOC METER (color, % gv, % ea, % fl, moisture, plast.)	
EP-01-107	1-1.5	SM	[OVLY2, very look brown, 16-15% grovel, 0-0 Foll sand, 25% time. Low plasticely Iow stitues. Bry. Sitty same up comm. SAND-very fire to medium, sub-ampular.	
EP-01-107	5-5.5'	ML	1642 Sty, yellowsh brown of great, 25-40% 0.0 same, 60% from Low plasticity, low stiffied. Show-very first, 3 who was also to sub-rown. Sendy 6.11+, 207.	

Maduche Trouses here et 500+ A. Encounteres what 1'-?' thick debut lower contains up bandous materials what handless steel stransport, - Audiess exets! From, and 2 75 mm Proceedile.



THE BLH SWMU NO .: _ TEST PIT LOG: TP __ET-61-108 DATE EXCAVATED: 8 -7 -4 C TIME EXCAVATION BEGAN: 13:10 WEATHER CONDITIONS: Clanding we looks the east, South and well LOCATION OF TEST PIT REFERENCE POINT: Feet N.S E Feet E.W. of Survey Ref. Fra Suray Ret. 18-2 210'830' 14 Orientation = E-W Total Depth = 71/2 Length = 141/2 Born Debris Lausen MENDONIT Wire (MASS) - Bulling Polish Same El-01-108-5'-b' and Establic Backints Same El-01-101-5's Sauthe EP-01-108.7' - 7.5'

EP-01-108 5-6' ML 104R 2/1, 25% gravel, 956 samo, Standy Sith, Compto stightly must. Sandy Sith, Compto stightly must. 5400 - First Pub-amples. EP-01-108 7-7.5' SM-SC 104R 5/4, yellowsh booms, dry. EP-01-108 7-7.5' SM-SC 104R	SAMPLE NO.	LOCATION (RL)	USCS SOIL TYPE	(color, % gv) % sa, % fl, melature, plast.)	VOC METER READINGS
Equip - course same 5 400 U	Ek-01-101		ML	104R 2/1, 25% gravel, 45% sams, gravels fines. Transfer alot of each 1 No to Low Plasticity, Low Stimmers. Sanda 5.1+, cloyeto shahtly mass.	0.0
Law to so plasticity, low-b anderest. Stiffness, burb moderate dry strength. Squry-curvey same. 54me is	EP-01-108	7-7-5	SM-SC	59. gavel, 70-80% SANO, 21-70% FUED	. • • •
1	Comment:			Law to no plasticity, love anderest. Stiffness, burk module dry strength. Spory-cuancy same. Same is	

Mabushi Trauriu Chargo "Stour" MAL. Treuch Executives bur/Asian Laste & 5'-6' Els: Containing abushed wire; builty, angtal Frac. Mangal, Ach. anno Contained Life. Vo" class tubing. Builted hit imbust Zane of mass of wire a France East End of treuch.



TEAD-N PHASE I RFI

SAMPLE

•	_	S 100 1 1	
SWMU NO.:	<u> </u>	DEK/8KH	_
TEST PIT LOG: TP			
DATE EXCAVATED:_			
TIME EXCAVATION B	EGAN:XE'_		
WEATHER CONDITIO	NS:_Scattered	Clarke strong gusty week from	and to bok
LOCATION OF TEXT	MT REFERENCE P	ONT:	
Feet N.S			
Feet E.W			
of Survey Rol		Í	
		2' -	
		Debvis Zue -	East Trumb
	20		,
W /	(in the	in-Place	
	Believe	Orientation = V	-w
سمسمعا	خاعله سرح	Total Depth =	
	برنو.	Longth :	
- 7 学 - 2"			
	- L	C. a. Alcom L.	South 100-01-104-4'-5
		3 3 400 18 41 80 819 43	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	X		
	7	Samme Alianoss for	C 41.
	1.	Sample Allian ets for	73-AIF EP-01-109-6
10 1	\		
10			
\ 1	\times_{n_1}		
	- Denni Za	me - west Trench	j

SAMPLE NO.	LOCATION (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % as, % ii, moisture, pinet.)	VOC METER READINGS
हा- 61-10 9	4-5'	SM	1048 4/21 dank grayest bruns. Grand 5-1070, sand 70-7570, Foods 15-2070, dry. Low to an Thatterty, Low stranges, SILTY SAND. Sand 13 very Line to endown; sab-angular; Grand-Gue, sab-angular. Turkous	0.0
Comment:	6.5-7'	5m-sc	2.57 by, light yellows bruss, 0 be'd sand, 40°7, furse, low place for the medical streams, medical strength, 5:16y-class sand, by. Sand-very fursy sub-angulation	To gravity structy, to day
Control	s in two Previ ex 1-ide, flow	iai foenchas 1 Parts 12 : Tae	ove Sulse: Steel Bondant, wive, a	tmone

PROJECT NO. 2942 0129

DCK/BKH SWMU NO .: 1 C EP-01-110 TEST PIT LOG: TP_ DATE EXCAVATED:_ TIME EXCAVATION BEGAN: __ Partly cloudy, Lot WEATHER CONDITIONS:.... LOCATION OF TEST PIT REFERENCE POINT: Feet N.S . E Foot E,W. of Survey Rel. 104mm Prosectiles w Orientation = E-Wi Total Depth = 6 Length = 12 e id-01 - 110 - 0.5' - 1' Me 59-01-110-5'-L'

SAMPLE NO.	SAMPLE LOCATION (RL)	UBCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % co, % ft, moisture, plact.)	VOC METER READINGS
E3-01-110		ML	164842, deale groups brown, dry, c510 grown, 90+2 sand, 15-250 fracts. No 7eastroom, constrictions. Silly sand. Sand- vary fracts mades, sub-angulate engulas.	9 🕶
EP-01-110	5-6	5m	1842 left, light yellowsh brown, dry. 0% grownly 80% soud, 20% fixes. No to Low Masterdy, And Low Stationers. SILTY Samo. 3 and -	0.0

Gestioness State modes some at Emanton Duly small and Low some of Some EP-01-110-5 5'-1', and 3-4 100- Prosectives.

very fore, sub-angular to sub-



Comment:

THE / REM SWMU NO.: _ TEST PIT LOG: TP DATE EXCAVATED: TIME EXCAVATION BEGAN: /230
WEATHER CONDITIONS: //Ear, 20-4 Se wind, 40°F. LOCATION OF TEST PIT REFERENCE POWT: Feet N.S SE Feet E.W. of Survey Ref. NW Orientation = Nw-Sa Total Depth = 4 Longth = 13 Debris/Rom Lasten Samed 41-01-111-34-41 Samon 201-01-111 - 54'-6'

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS VOC METER (color, % gv, % as, % fl, moisture, plast.) READINGS
E7-61-111	3.5-4	mL	164k 5/21 very dark grayth brown, by 0.0. Of, gravely gands 30-9670, form 65- The low plants maketh plantesty; low stillares. Sist w/ sand. Sand- very from to making a sub-angular.
Comment:	5.5'-1'	ML	104R Wd, light yellowed bound 0.0 Or prevely 40-35% same w-70% Super. Law to an plasticula, 100 to moderate stiffness dog sandy Sitt. Gand - very free, sub-enquick
	_	1	

Lastinizes whiles when 780 mines) = "St Low Monn". Encountering I.E" retirt monitis chances, with winners wood = 2" 12.00.



Dex/BXH SWMU NO.: . EP-01-112 TEST PIT LOG: TP DATE EXCAVATED:_ 9130 TIME EXCAVATION BEGAN:___ clear, south breeze Cloud). **WEATHER CONDITIONS:_** LOCATION OF TEST PIT REFERENCE POINT: Feet N.S _ Foot E.W. of Survey Rel. From Souven Bet. 182: 315'e 3° Orientation = E - W Total Depth = 4 Length = 14" Samte &-01- 112-3½'-4' 3946 · #-- 112 · 54 - L'

SAMPLE NO.	LOCATION (RL)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gr, % sa, % fl. moisture, plast.)	VOC METER READMOB
E2-01-112	3.5-41	SM	Dove tellowed Rom (10th 1/2) Day, now to Low Protects from St. Huest Broad 108 1786 and 65-706, from 25-906. Seekly sand of grand. Sand 15 very-from to force 1 sab-angular.	D.0 1111
EP-61-112 Comment:	5.5-6	wL	104R 6/4, light yellowsh bows, dry. Tow to moderate playhesty, low to moderate stiffness. Brand a oth, Sand a 20/0, fines 70%. Sandy Satt. Sand is very fine, sub-round to sub-rounded.	0.0 km

Coephasical Torocate Mere shows "Strome man + S.C. Debre trucan from includes named bondies. Refs. etropones, but sh. norms + extrang Zon 65, from Steen for 60" Bonds. 12) 3" army Protectile, 2 couden 65-bat. Drums. closure Pubs for bombs. Metal frac, and Minor as a Noten.



TXK/BKH SWMU NO .: . TEST PIT LOG: TP _ 49-01-113 DATE EXCAVATED:_ TIME EXCAVATION BEGAN: 1245 WEATHER CONDITIONS: procedures clouds, but LOCATION OF TEST PIT REFERENCE POINT: Feet N,S Feet E.W. of Survey Ret. W Orientation = 2-W Total Depth = 8," Longth = 18/ Debon Zine (5 saus Eprei - 113 - 64'-7' Eletosise Renderta Sante El-01-113-6%'-7' Santik Er-01-113-7'-8' SAMPLE LOCATION USCS SOIL DESCRIPTIONS BAMPLE NO. SCIL TYPE (color, % gr, % se, % fl, moisture, plact.) READNIG 65-71 7542 3N, lake brown, day, 210% graves. EP-61-113 16.70% Sund, 20-25% fines. Silty SANSAS AND - FINE, Engales to Sub -ungalan. 104R Wd, I maked yellowish brown. (P-61-113 SM slightly must, low plastich, low stilmes, GRANT=0to, Somo=80+to, KINES Ebout 26%. GAND - rong fine, 545-sugular. to sugular Leisthacies State at Launtinu is "SC+ man com+ 6" Debon Zour Lour ANMO Conformery NEIS, Ston Fran Botts, 1 5" recent mother, a Romanus Charme Com, Prosections, wire Seven, / James 1

NO. 28-4-0120

SWMU NO.:	16		DCK/BLI+	
TEST PIT LO	G: TP EP-	01-114		
DATE EXCA	****	8.9.92		
	ATION BEGAI	4: 1335	1-14	
	CONDITIONS:_ OF TEST PIT R	FREE PACE PO	MT.	;
Foot N		D. St. Stock t. O.	WI <u></u>	
	.w			
	vey Rel		· L	
			2'	
	,	///		,
	13		\rightarrow	
			Orientation = E-LL	·
			Total Depth = 12'	
0-	ز کی ا		Longth = (3'	
	مسرشناه			
2 → 2 → 3.0	-71	مسر		
	3 1 1	/ 44/	Szulle EP-01-114-4'-5	•/
		700		
₹ • −{	1	1	6'-7 Thul Dalam Zen	
		11/4	6.7 Think Delar 200	e .
10		3/1/2		
2	SV-L-VI		5 2-WE EP-01- 114 - 11 '-12'	
- <			2 grove El acia lle a II als	
•				
ro	CATION	USCS	SOIL DESCRIPTIONS	VOC METER
SAMPLE NO.	(RL)	SOIL TYPE	(color, % gv, % sa, % fi, moisture, plast.)	READINGS
EP-01-114	4-51	SM	1042 3/6, bank yellengh brown, do	0.0
		.	grand to 100, sour 65-70%, firm	
			about 2070-25%. Low plasticity	,
			low stiffuess. Silty same w/	
			glass and mothly frequents. Soul	is
			Very have to five grand, sub-	•
			angular.	
B-01-114	115-12	4		ndin O.O
6 - 0	110 40	5M -3C	104R b/b; brownish yellow, flight	2 · · · · · · · · · · · · · · · · · · ·
			maist, grave (0%, cand ~ 75-80	<i>b</i> ,
Comment:			fines 40-16%. Silly sand Lov	er to enal.
			plasticity and stifferess. Same	4
			15 very five, sub-engages to a	ng when.
			+ Mabi Dubon zami containe 14" work	summers bondon
rads, sime	5 receit .	when water	a Fish CON 1 Column rines, Anno Co	netomesta Lios, 🛕
		m mactans	s eteci Raniwo-Amelad hemalde-	reo Sail.
we s w	145			
TEARL .	HASE I RFI			
TENTON I	THE PERSON NAMED IN COLUMN 1			

PROJECT NO. 2942 0129

SWMU NO.:	Du TRUN
TEST PIT LOG: TP	
DATE EXCAVATED: 16 Phones	
THE THEATTEN STOLE " 704"	
WEATHER CONDITIONS:	Secretic SS F.
LOCATION OF TEST PIT REFERENCE PO	
Feet N.S	
Foot E.W	E
of Survey Rof	
	4.
W -19'	
	Orientation = E-W
'	Total Depth = 10'
	Length =
	()
	/
5 2 THE NUMBER OF THE PARTY OF	Talaris .
	/ Zeuci
	1 _ Capall EP-01-115-5.5'-4'
P P P P P P P P P P P P P P P P P P P	
	found to
	Sample Effor 115 - 5.5' - 6'
32.50	
<i>₩</i>	

SAMPLE NO.	LOCATION (RL)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % se, % fl, moisture, plant)	VOC METER MEADINGS
E8-01-115	4.5-6	SM	1048 5/4, clark yellowich brown, dry, 1000 plesticity and stiffness, 07; greenly 60°11 5000, 462 fines. 5,144 5000- unstand alot at small metal shawas and finemate. 5,000 is vary fine to fine,	0.0
E1-01 - 115	9.5'-10'	ML	Sub-angulade 1848/13, pale from dryglow platicity, low to medience studience, granel oc., 5400 a felt, force or 687. Sandy sitt.	0.0

Comment

Environ of Gale Shows 'Mos + SL'. Debris Zonez contains showdow the items bonding to the Common Come of the Stan. some is), interest them the sound of the standard of the standard of the sound of the standard of the standa

SWMU NO.:	10	•	RKU / T	C K	
TEST PIT LOG: TP_	ES-C1-11				
DATE EXCAVATED:	8.10.92				
TIME EXCAVATION	BEGAN: 10 24				
WEATHER COMPITE	MS: p clandy	hat . shak	1 2-16	2000 Le	
	PIT REFERENCE PO				
Feet N.S					
Foot E.W		E			
of Survey Ref.		_			
or survey rest.		\star			
		2'			
		~~			
1	11				•
ω	/"/	K			
			Color	ntstion = E-	
				Depth = 10'	
	2//		1.000	th = 11'	
0-1	. ///			m: = 11	
	\ \frac{8}{2}	1			
_ 2 _		<i>F</i>			,
3 - I			Same	: 11	6-3.5'-4'
		/			
Pepth in					
	THE COMMENT	-	Delan	3	
8	Land	\prec	Debris	ZONE	
	المراه المراه				
		-			
10 그		2 gml	15 EP-01.	116-9'-10	•
Lil Alfalli					

SAMPLE NO.		USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % se, % fl, meisture, plast.)	VOC METER READINGS
EP-01-116	3.5-41	ML	tone Vi, very dak gray. dry, the gravel, 	0.0

EP-01-116 9.5-10" ML

104 R 148, pale brown: dry to slightly
MEST. D7. gravely 40% sand, 66% fines. Extyn
South-Bath Sandy Sit. Law plasticity;
tow stiffness. Vary fine to fine Sandy
Sub-angular.

Comment:

Contains 3 from at this location is "SC! Mass." Debru rease here
Contains 3 from at inusers Portula mellip item Rouding materal,
Uses Steel Roudins, Metal Coult, war handles, metal Cornting,
burness wood.



SWMU NO.:	DCK / BKH
TEST PIT LOG: TP	
DATE EXCAVATED: 2.10.97	
TIME EXCAVATION REGAN:	
WEATHER CONDITIONS: Scale	and closes, but, lost bour to not
LOCATION OF TEST PIT REFERENCE	
Feet N,S	
Foot E,W	E
of Survey Ref	
W (3)	8°-10" A Zone Deschrement
13/1	The Principle of Chemical Control of the Chemical Cont
	Orientation = E-W
بان ا	Total Depth = 5/2 '
	Length = 13
	53mple EP-01-117-0-6
	/- - '
9 4 1 5 4 1 1 5 4 1 1 1 1 1 1 1 1 1 1 1 1	/
ミュコルラの肝肝川 /	'
	Same = = = 01 - 11 7 · 5' · 6'
8 1	3 mile - EF-01- 11 7 5 . 6
10 - ' '	•

SAMPLE NO.	LOCATION (ft.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % sa, % fl, moisture, plast.)	VOC METER READINGS
EP-01-117	,5-('	ML	184 R312, very dark gray ish laraway, dry 187. gravely 25-387. Sand, 756 fines. Low to moderate plantichy low stillness. Sitt of sand. Sand is very fine to and way, sub-computer.	6.0
EP-01-117 Comment:	5,5 - 6*	SM	toyeby, light yellowish brown, dry. 07, gravel, -70% camp, so-25% fines. Law pindicity, 100 Stillness Silty Sand. Sand - Very fine to Pine, sab-angular to angular.	0-0

Magnetic Traverse state Hire lette were more 3006. I small section of wire from nother we underly be in travel. The found surface and some surface which is hitheren in both of Inmost and black Dah, from surface Brains, for a 20' raise serie travels.



TEADAN PHASE I REI

DLY / BLH SWMU NO.: .. 50-01-118 TEST PIT LOG: TP DATE EXCAVATED: TIME EXCAVATION BEGAN:. scorderer clarks/ nuch breeze het **WEATHER CONDITIONS:_** LOCATION OF TEST PIT REFERENCE POINT: Feet N.S Foot E.W. of Survey Ref. w Orientation = E-W Total Depth = L Length = 12/ Sanne EP-C: - 119 - 0-6" EP-01- NB- 55'-L' LT. YEARAPAR Brands day S. He Grand 4/Samp. and 507 well-broaden superpreseden Grands; about 76% is fire sub-remain Studio and Zeris broad. 1886- Pinta. about 50% Case toc

SAMPLE NO.	SAMPLE LOCATION (R.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % se, % fl, moisture, plast.)	VOC METER READINGS
GP-01-118	05'	SM	1078 3/1, very dark gray, dry 0%. Genvel, 60-65% soud, \$5-40% fixes. Here to low planticity, panel to low Stations. 5. Hy soud. Sound - live to course, sub-angular.	0.0
E7-01-118	5.5-6	ML-CL	ioteb/4, fight yellowsh brown, dry Offgrace, 20-262 same, settlines. Low to anaderate plasticity. Iom Stillness. Sitt - Learn Clay refsand. Sand - very fire, sub-angular to Sub-round.	_စ ပ

No mabuelse disourtives Encounteren only Scattering remains of Safere borning here. Comment west Roses -/ware characters, ass, west fraunds for 10'-16' resides. Plus Scanteren bur mean thoughout Course of area.



w/= with

SWMU NO.: C	BLU / Del
TEST PIT LOG: TP P-01-119	
DATE EXCAVATED: 3:11.92	
TIME EXCAVATION BEGAN: 2:45 WEATHER CONDITIONS: 244	colon, hat (55: 25:5)
LOCATION OF TEST PIT REFERENCE	
Feet N.S	.4
Foot E.W	λ
of Survey Ref	/U
	•
	2
13'	DEC 2000 (= 12" XIV" XIV".) issue Box
5	Orientation = N-S
	Total Depth = 61/2
	Length = 12.
	Sample 60-01-119-0-6"
= 2 - · · · · · · · · ·	\int
E 4-1: Sallin	Same 60-01-114-6-65
10 7 " "	

SAMPLE NO.	LOCATION (ft.)	USCS SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % sa, % fi, moisture, plast.)	VOC METER READINGS
EP-01- 119	5.4-6.51	SA BLA	IONRY2, dark groupsh brown, dry. Iow plasticity, no stitues. Bu good, 36% jand, 65% fracs. 5.1445and - Sand 13 Medium to very coarse, sub-angular.	94.0
Ep-01-114	7.4-63	- >M	loyes, brown, dry. tow plast kity, 100 Stillness, 0%-56 gravel, 15% sand, 95% fines. Suly sand. Sand is fine to Coarse, sab-unquine	© . ©

Comment

Manuelie resolute on challe what 60' to the south of thouch change "Man wear 1606" Trench is Lucter in Struct de Pressions (25' dia x 2'-7' dece) only debris notes is decreed weaker Rox 3'-4' B65 in Northern Part of treated want?





10 BKH / JLK SWMU NO.: _ EP-01-120 TEST PIT LOG: TP_ DATE EXCAVATED:_ TIME EXCAVATION BEGAN: 9:00 **WEATHER CONDITIONS:_** elega LOCATION OF TEST PIT REFERENCE POINT: Foot N.S . Foot E.W. of Survey Rel Szmike E0-01 - 120-0-6" W Orientation = E-W Total Depth = [' Longth = 12' -UI - 120-5'-6'

SAMPLE NO.	SAMPLE LOCATION (ft.)	USCS SOIL TYPE		OC METER READINGS
EP-01-120	051	ML	love 4/2, ciente grayish brown, Atfillow plasticity, low stiffness. Oh grand, Allesond, both fines. Silt w/ sand. Soul fine to course, sub-compalar.	0.0
FP-01-120	5-6'	Sm	1048=13, brown dry, law plasticity and stiffness, on estigantely USL jours, 5144 Sand. Send - Since to course, sab-angular.	

Comment:

Treach is Located in Local depression and lamental Double to Area.

No debris or Enioque of birums stoked. Ene 5. Games Shout- tipe

Case in without it's Give and ZG' SE of treach.



SWMU NO	1.		DUL / BLH	
TEST PIT	LOG: TP	-01-121		
		2-1142		
	AVATION BEGAI		Summer 44° 2	
	R CONDITIONS:_ N OF TEST PIT R			
	t N.S	erenewe ro	S	
	EW		as Liebt valeund Brans Tra Ends 511:	
	lurvey Ref		mile start for fract to be Playtests;	
			1 1 revolt to the ment in the breater	•
			Sould, Nil Cornel.	
	, <u>a</u> ' ~		· ×	
N				
			Orientation = N-S	
	52-116		Total Depth = 10' Length = 14'	
0	£(*41*121*6.4			
			4	
₹ ² → (i)		/ -	-	
ᄹᇫᆀᆒ		~/	<i>/</i> ·	
_ = TIMI		<i>-\//</i>		
Depth in Feet	74			
		2		
		/ <i>/ / /</i>		
10 □		-	Samle E2-01 - 121 - 4 -10'	
			Jamie 61-01 - 121 - 3 -10	
		, ,		
	3-	-3		
	SAMPLE	3		
	LOCATION	USCS	SOIL DESCRIPTIONS VCC METER	
BAMPLE NO.	LOCATION (ft.)	SOIL TYPE	SOIL DESCRIPTIONS VOC METER (color, % gv, % as, % fl, moisture, plast.) READINGS	
	LOCATION		SOIL DESCRIPTIONS (color, % gv, % ca, % fl, moisture, plast.) 1046 54, yellowsh bawa, dry, siby said.	-
BAMPLE NO.	LOCATION (ft.)	SOIL TYPE	(color, % gv, % ca, % fl, moisture, plast.) 1 OVR 5/4, yellows h brawn, dry, siby stad. 1 ow outstarty out stiffness.	-
BAMPLE NO.	LOCATION (ft.)	SOIL TYPE	SOIL DESCRIPTIONS (color, % gv, % ea, % fl, moisture, plast.) 1 OVR 5/4, yellowsh brown, dry, siby soid. 1 on pasticity out stiffness Cl. grant, bo-65% sand, 35-40%	-
BAMPLE NO.	LOCATION (ft.)	SOIL TYPE	Color, % gv, % ea, % fl, moisture, plast.) 104 54, yellowsh brown, dry, siby sond. 104 plasticity out stiffness 106 grant, 60-66 sand, 35-40. Fines. Sand is very fine	-
BAMPLE NO.	LOCATION (ft.)	SOIL TYPE	Color, % gv, % ea, % fl, moisture, plast.) 104 54, yellowsh brown, dry, siby sond. 104 plasticity out stiffness 106 grant, 60-66 sand, 35-40. Fines. Sand is very fine	
BAMPLE NO.	LOCATION (ft.)	SOIL TYPE	Cooler, % gr, % ea, % A, moisture, plast.) 1 OVR 5/4, yellowsh brown, dry, siby sond. 1 ow plasticity and stiffness Cl. grand, 60-65% sand, 35-40% fines. Sand is very fine to fine, sub-angular to sub-round	18
<u>BAMPLE NO.</u> <u>E</u> P-01-121	C5'	SM SM	Cooler, % gr, % ea, % A, moisture, plast.) 1 OVR 5/4, yellowsh brown, dry, siby sond. 1 ow plasticity and stiffness Cl. grand, 60-65% sand, 35-40% fines. Sand is very fine to fine, sub-angular to sub-round	
BAMPLE NO.	C5'	SOIL TYPE	Color, % gv, % as, % & moisture, place) 1 OVR 54, yellowsh brown, dry, way sond. 1 ow plasticity out stiffness Ci. grant, 60-65% sand, 35-40% fines. Sand is vary fine to fine, sub-angular to sub-round 1 DYR 6/4, light yellowsh brown, by, and. 000	
<u>BAMPLE NO.</u> <u>E</u> P-01-121	C5'	SM SM	SOIL DESCRIPTIONS (color, % gv, % ea, % fl, moisture, plast.) 104 54, yellowsh brown, dry, siby sond. 104 plasticity and stiffness Cl. granf, 60-666 sand, 35-406 fines. Sand is very fine to fine; sub-angular to sub-round 1048 6/41, light yellowsh brown, dry, and. or of areast; 40-95% sand, 5-10%	
<u>BAMPLE NO.</u> <u>E</u> P-01-121	C5'	SM SM	Color, % gv, % as, % & moisture, place) 1 OVR 54, yellowsh brown, dry, way sond. 1 ow plasticity out stiffness Ci. grant, 60-65% sand, 35-40% fines. Sand is vary fine to fine, sub-angular to sub-round 1 DYR 6/4, light yellowsh brown, by, and. 000	
EP-01-121	C5'	SM SM	SOIL DESCRIPTIONS (color, % gv, % ea, % fl, moisture, plast.) 104 54, yellowsh brown, dry, siby sond. 104 plasticity and stiffness Cl. granf, 60-666 sand, 35-406 fines. Sand is very fine to fine; sub-angular to sub-round 1048 6/41, light yellowsh brown, dry, and. or of areast; 40-95% sand, 5-10%	
EP-01-121 EP-01-121 Comment:	(R.) 05'	SM SM	SOIL DESCRIPTIONS (color, % gv, % ea, % fl. moisture, piast.) 104 54, yellowsh brown, dry, siby sond. 104 plasticity and stiffness Ci. grant, 60-65% sand, 35-40% fines. Sand is very fine to fine, sub-angular to sub-round 104 6/4, light yellowsh brown, dry, 2000. 60 6% areael; 40-45% sand, 5-10% Lines. Poorly graded sand, Sandis fine, round.	
EP-01-121 Comment:	9-10'	SM SM	BOIL DESCRIPTIONS (color, % gv, % ea, % fl. moisture, pinet.) 10VR 5/4, yellowsh brown, dry, siby stad. 10VR 5/4, yellowsh brown, dry, siby stad. 10VR plasticity and stiffness. 10, grand, 60-65% send, 35-40% 10VR 6/4, send is very fine 10VR 6/4, light yellowsh brown, dry, 2000. 600 10VR 6/4, light yellowsh brown, dry, 2000. 600 10VR 6/4, light yellowsh brown, dry, 2000. 600 11NTS. Poorly graded send, 5-10%	

PROJECT NO. 2. . 0120

SOIL BORING LOGS

SOIL BORING LOG JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. **LOCATION of Soil Borings** O!L LOG SHEET NUMBER (Bore/page,no.) GEOLOGIST F. MORETON / B. HOLDAN HY Feet N.S. DATE__ Feet E.W. DRILLING CONTRACTOR LITTINE of Survey Ret. DRILL RIG.... BORING DIAMETER. TYPE OF SAMPLE. PLUID LEVEL NA DATE STARTED TIME DATE 7/73/92 HOLE DEPTH 0-100 SAMPLE INTERVALS GRAPHK LOG DEPTH IN FEET PER 6 IN USCS SYMBOL LITHOLOGIC DESCRIPTION 1107 0 1 1230 SEE 0 70 There's "FI u sketecke ONE SE D 30 90 AL slightly most, brown, law steel seels, I Stiffers, Sandy alle an Sab-nor PROJECT NO. 2942.0120 TEAD-N PHASE ! RFI

THE No. 1 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. TOOELE ARMY DEPOT **NORTH AREA** DATE 7/88/92 WATER LEVEL TIME GRAPHIC LOG DEPTH IN FEET LITHOLOGIC DESCRIPTION BLOWS PER 6 IN (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 2390 10 2.57 % 0 ML ٥. 10 Allows, ready citi sand - Fine. 11 МH 11 4.4. 12 13 14 3 25 13:15 15-16-10 251 43 0 20 30 alist browns, low to moderate 66 The state of 16 17 18 19 5. = slightly A.4 = 47 above PROJECT

SWMU No. #1 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGISTZ. Holdanny / F. March TOOELE ARMY DEPOT NORTH AREA DATE 7/23/42 TIME WATER LEVEL LITHOLOGIC DESCRIPTION GRAPHIC DEPTH W FEET (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 20 -4277 O 13:30 36 VI s. meet, light alive bount low plasticates law 18 15 1. fire to full, cob-rough 2 3 4 19:45 25-455 50 CM 1912 15 150 20 30 art book deace. Cittle amed w/ cond. and - from to conce. 64 7 9 PROJECT NO. 2942.0120 v. every rec. erecovery w/wwdl A-A = As Above

SWMU No. 01 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST 2/0 FALCO /R HARS TOOELE ARMY DEPOT
DATE 7/23/94 NORTH AREA of II TIME WATER LEVEL DATE LITHOLOGIC DESCRIPTION FID/FID READING SAMPLE GRAPHIC LOG *GRAVE BLOWS PER 6 IN. Z DEPTH O IN FEET USCS (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) MY 1012 7 30 50 10 DARK YELLOCK BROWN, MERCH 1425 30 ory REWE 70 DENCE WELL OPASED SAME OF SATT WAS J pp GANG FINE, ANDWEAR TO SHE AME. 70 SUBROWE 315 2 3 35 VERY POOR RECOVERY 1441 0 6M PERCER OF GRAVER THERE AS 6 345 7 8 9 **9** PROJECT

SWMU No. 01 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. of 11 DATE WATER LEVEL TIME LITHOLOGIC DESCRIPTION FIDIPIO READING SAMPLE GRAPHIC LOG DEPTH IN FEET BLOWS PER 6 IN. (USC name, color, size and angularity of each component COM or plasticity, density, moisture content; additional facts) 40 40-45 SALVONEY 20 50 130 DEM TO BALK BROWN 20 PLASTONE UN TO NO STOPP 187 21 sett savo w) hadre. Savo oft 35 PENE TO VERY MARSE, SHEREW LARVER PYNOTO CONNE SHE ROOME 2 3 45 10:32 42 264 mets 15 15 10 kasa 30 led annual me att a H -round. Sanda Vo fick the w 4.5 7 8 PROJECT NO. 2942.0120 WENN

SWMU No. 0/ JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST F. MOLETON /B. HUL MONY
DATE 7/24/92 TOOELE ARMY DEPOT NORTH AREA of II **WATER LEVEL** TIME DATE PEADING LITHOLOGIC DESCRIPTION GRAPHIC LOG BLOWS PER 6 IN. DEPTH IN FEET (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 50 64.6p VENY POOR RECOVERY SOME COMMET 10:32 GW SWELLOO GANET + LCOCKIES ABMORNT 25' HATEL THERE CYCLENE, GRAY DELSE WELL GAMES MANER 515 2 (OBBLES + WANTEL THAN CYLIONE LZOGY SAMOS + FEW 63 53 A NOSAMPIE THEEN AT 10:42 55 THA (YCLONE 56.5 7 COBRLES + HANGE THAN CYCLONG VEN FEW SMAST FENES 9 .0120 PROJECT NO.

SWMU No. 01 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. FACETA / BHOWANT Barre No. TOOELE ARMY DEPOT GEOLOGIST_ NORTH AREA DATE of IL WATER LEVEL TIME DATE SAMPLE INTERVAL GRAPHIC PEADING OR COMMENT %GRAVEL GRAVEL LITHOLOGIC DESCRIPTION BLOWS PER 6 IN. USCS SYMBOL DEPTH W FEET (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 60 GRAM A/A ABUNDANT LANGE + CARIE 1053 THEN CYCLONG NO SHAPLE THE T THE DEPTH 1 61.5 (HANGE IN LITTOLOGY AT 2 62 2 ML 100 0 25 75 ML -62' SL MOSSE, YPLOWISH BYON LOW PLASTE LOW STAFFARSS 714 W/ SAND v. fine to medium, round. Occupation evelope 65 1143 NO 62.5 Abustor FENES THE MITTERPIL LOOKS VERM RECOMPLACE BY SPITE SPOON SHAPLED. WELL ABREN AT 9 ROJECT NO. 2942.0120

	GEO DATI		ST_		BB	w/	•	MSULT		TOOELE ARMY DEPOT	AU No. 8/ Will-col ge
				1				T		WATER LEVEL TIME DATE	المجاورة المحاورين
	SAMPLE INTERVAL	BLOWS PER 6 IN.	USCS	MUNSELL	*GRAVEL GRAVEL	%SAND	KFINES	GRAPHIC	DEPTH IN FEET	LITHOLOGIC DESCRIPTION (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts)	FIDIPIO READING OR COMMENT
1158	70	10						GP-	70		0
	-	10				_		1			POOR
	1	30	-		+-	\vdash	-	11			26-8 v
	*	27						11	1		stete +
	71.5	21		<u> </u>	-	╀	├	1,			<u> </u>
1215	72	_	CL	iche 94	15	20	75	CL	2	Glightly most, velloush from, moderate	Cyclest S
									-	plasticity + stiffes, sandy lease clays	
		+			\vdash	-	-	1		Gand - VERY Free to Parky Sab-engaler to	
								1	3		
		-							"		
_					-	-	-	1 1			
								1		SOME GAMEL LAYERS / VEM	
]]		THAN) ARE PREENT IN	
					╁	-	_	1		THESE SECONDENTS - DETECTED BY CHANGE CYCLONG CUTEDNES +	
_]]	7 5	PENETHICIDA MITES	
1223	25	4	CL	PAG	325	25	70		/	SC, ALOST, YPLIONOS F BROWN, LOW	4
	-	70		<u></u>	 	ļ <u>.</u>	_			TO MODERATE PLASTESTY, LOW TO	RESOUR
		20]	_	LEAN LINY CHIND VERY PONE TO	
		29							6	material, sold professione	
					-			{			
								1 1	,		
									7		
					-	├-	 - -	1 1			
					一	-	-	1	1 .		
								1	8		
					┼		<u> </u>	1 1		<u></u>	
					┼─	-	-	1 1			
								1 1	9		
-0120								1	1		
						_			1		
	.000									<u> </u>	
2		•	<i>yeu</i>	* 80	المحيد طويسة	ret, and					
ROJECT NO.)	SL s	- L.	s M	77	•				

SWMU No./ JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. F. MORPON/ 6. HOLDANAL **TOOELE ARMY DEPOT** GEOLOGIST. 24/92 **NORTH AREA** DATE of I WATER LEVEL TIME DATE *GRAVEL GRAVEL SAMPLE GRAPHIC LOG LITHOLOGIC DESCRIPTION MUNSELL BLOWS PER 6 IN DEPTH IN FEET USCS SYMBOL %SAND &FINES READIN (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) CHTANE EN LETWOLDBY AT 2 80' 80 1239 80 600 10 yes 42 10 BROWN TO DARK BROWN, 811 OPENEL MINEL FENETOLINESE 6m ANDHUMP TO SUBMANUME SUA TOUT TO COMPLE. SUBANT VERY DEFECULT DESCENT, ARMOUNT CORRLES + GAMEL THAN CYLLOSE. CHRLES TO 4 3 5 THIS SWINNER. 6 7 8 9 2942.0120 2. D. = ZHESS ANNERS HOJECT

ŀ		JAI	MES I	_					JLT	TNG		SWMU No.
1	GEO	LOGI	ST_	F.,	MO	U	~	·			TOOELE ARMY DEPOT	Borne No.
	DATI	E	_7/	24/	92						NORTH AREA	Page 10 of L
ſ											WATER LEVEL TIME DATE	
	SAMPLE	BLOWS PER 6 IN.	USCS	MUNSELL	%GRAVEL GRAVEL	%SAND	%FINES	GRAPHIC	100	DEPTH IN FEET		PERF READ OR COMM
20	10-90			MES			10	ું	- 1	70	All dry, redown brown, dense, well	
ŀ					-	1	<u> </u>	4	~		graded gravel w/ sult and sand; gravel	- Edda
ŀ			-		+-	-	+-	1			Send-Core de course en sub-com	4.
İ								1	ı	1	300-round	
ŀ			<u> </u>		╀—	}_	-		- 1			
H			-		+	-						
t									l	2	<u> </u>	
							lacksquare					
ŀ				1	┼	┼	├		-			
H				 	┼	<u> </u>	-	1		3		
t								1 1				+
									ł			
ŀ			_		 —	<u> </u>	_			4		
_					 	├	 		-			

_										15		
_					 		_			••		
-					-							
r												-
									1	6		
L					-							
H	9250		244	DIRYL	2.0	-	-		/		Day well and the second of	
H	7.678			1016.0			1277-	6	.	97	Silly and we said formed fine to	700
								1			coase, sub mander de sub-mand. Se	4
_						<u> </u>					-five is east, and-angular.	
H					-	_			1	8		
r		$\neg \dashv$							1			_
L										9		
H									ł	·		_
H												
r								1				
r		44	/:•	, eth				Ė				
			, - •	- -								
١I	**											•

А

SWMU No. at JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. Borney No. GEOLOGIST B. Words **TOOELE ARMY DEPOT** Page ____ 7/24/92 NORTH AREA DATE of LL WATER LEVEL DATE TIME SAMPLE MUNSELL GRAPHIC LOG %GRAVEL GRAVEL LITHOLOGIC DESCRIPTION FIGHTIO READING BLOWS PER 6 IN. USCS SYMBOL DEPTH IN FEET **XSAND** (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 100 1336 100-101K12 Gm VITA POOL RECON some conver + collis 1 on ofcions the 18.5 2 • 3 5 7 8 9 PROJECT NO. 2942.0120

SOIL BORING LOG JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. **LOCATION of Soil Borings** LOG SHEET NUMBER (Bore/page no.) GEOLOGIST R. Horston / F. Marston Feet N.S. DATE 7/27/92 Feet E.W. DRILLING CONTRACTOR LAVAE ENGRAPHIC of Survey Ret._ DRILL RIG AP 1000 Perussion Hames BORING DIAMETER 10" SPT TYPE OF SAMPLE... PLUID LEVEL NA DATE STARTED TIME 7/27/12 DATE DATE FINISHED 7/27/92 HOLE DEPTH 7/27/92 150' BLOWS PER 6 IN LITHOLOGIC USCS SYMBO MARKE COLOR DESCR'PTION 0 wee 4 20 SM 0-1 ery, but GET NO PLASTURY OF 0.0 sorter sange STIFFAUESS, SELTY SAME W/ GAME. SM Shop - I me treated, sug- when GLMEL -4 me to exact, 548-Autorde 3 5 . 8 790 101254 50 35 15 14340 5-65 20 64 Slightly most, 12" recovery 23 SILTY GALVEL W/ SAND. CM GRADEL - FINE, 348-AMELIA 45 Sub-Kondo. SAM -MEDIUM TO COMACE, SUB-MICH 8 PRESENT OF COMPLET IN EXPLOSE, 25% 2942.0120 W/Ewith # 710 reading day to playle 15 PROJECT NO. TEAD-N PHASE I RFI

SAMPLE INTERVAL	LOGI	ST I	. Hou	Lords	_ /						3	SEE !	
DATE		31 <u>3</u> /				5. M			TOOELE A	DMY DEDC)T	~~ mg //	ø.
			27/1	12	'/_'					H'AREA		Page_	
Y.E IVAL													of
YE YAL		Ì						1	Y/ATER LEVEL	TIME	DATE		
721	Z	یہ ا	1	بر <u>بر</u>		_	ಲ್ಲ	- 5	LITHOLO	GIC DESCRIPTI		FI	
	BLOWS PER 6 IN.	USCS	MUNSELL	SCHAVEL GRAVEL	KSAND	%FINES	GRAPHIC	DEPTH IN FEET	(USC name, color, size			I	OR
SA	3 5	USCS	38	38	3	7	83	2 2	or plasticity, density, r	noisture content;	additional fact	s) ca	MAE
10-165		L	I		1	30		10	Shall pagest; "	orpun ,	MEDINA	4 2	. [
10-10-		•	1010	41	*	7-	CA	}	HON DERTY, SIL				المدو
	50	1						1					
		1	 					١.		7-4		8	2
							 	1		to LOADSE,	Sale - fall		
								1					
		1						1					
								-					
								1					
		ļ	ļ	ļ	<u> </u> :			1					
		L		ļ	<u> </u>			∔ 3					
		ļ	<u> </u>					_	•				
		-	ļ					l					
								l					
		-				-		4					\neg
		-	 -					1					<u> </u>
	- i						Ī	1					
							SM	1.					
-4	37	SM	INTE 1/	7	LK	3		15	cliably must. In	de acount	brown!	12.	5,
								1					
	50						- {	[
	3							ء ا	BAND- FUE.	al-Antholds	! .		
								0					
								. ا					
							1	•					
								7					
							- }						
							- 1						
							- 1	1					
								8					
							- 1						
	}				-		- 1	1					
							1	<u> </u>					
							1	9					
							1						_
]						
				-			V						—
	اد			<u></u> i									_
		C-44 37	50 M	50 50 80 80	50 S S S S S S S S S S S S S S S S S S S	50 SO SO SO SO SO SO SO SO SO SO SO SO SO	CHOST SM WIRE TO US IS	50 SM 1088 15 15 15 15 15 15 15 15 15 15 15 15 15	37 M DIR 2 V. 4 US 15 50 50 50 50 50 50 50 50 50 50 50 50 50 5	Round - MEDIMAL - SAM - MEDIMAL - SAM - MEDIMAL - SAM - MEDIMAL - SAM -	A SAME - MEDIMEN - CONDECT, SAME - MEDIMEN - CONDECT, SAME - SA	A SM DIR GAME US IS SM DIR GAME US IS SM DIR GAME SM D	A SAND - MEDIUM - COMMER, SARE - ANGLAND. 15 Glaphly MUST, Lark g-with brown, 3- DENE, SIGNIY MUST, Lark g-with brown, 3- DENE, SIGNIY MUST, Lark g-with brown, 3- DENE, SIGNIY SAND W/ CLANDE. 6 GAME- Find, SAR-ANGLAR. 7 8 9 15 Glaphly MUST, Lark g-with brown, 3- DENE, SIGNIY SAND W/ CLANDE. 9 16 GAME- Find, SAR-ANGLAR.

										ENGINEERS. INC.
	GEO DATE	LOGI	ST 3:	17/4	2				<u>~</u> _	TOOELE ARMY DEPOT NORTH AREA
										WATER LEVEL TIME DATE
<u>n</u> ť	SAMPLE INTERVAL	BLOWS PER 6 IN	USCS	MINSELL	%GRAVEL GRAVEL	%SAND	%FINES	GRAPHIC	DEPTH IN FEET	LITHOLOGIC DESCRIPTION (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) FIDENTIFY COMME
•	20-216	33	SM	INA	30	स्र	440		20	wet, PME FLEOW, LOW TO MONE PLASTICITY. 9
40								SM		LOW to NONETSTIPMIES, SIETY SAME W/ 10th
		50			 					GARTEL. SAND IS FINE, SHI-MAGHAL.
					-		\vdash		1	GRANT IS FINE, SUB-ANGULAL.
ł								'	1	
t								-		
Ţ								ļ	2	
ŀ			<u> </u>		<u> </u>	<u> </u>		.	-	
ŀ			<u> </u>		\vdash		-	1	1	
ŀ						-	\vdash	1	_	
ı									3	
1			'							
-			:		ļ			. [4	
ŀ	-				₩		\vdash			<u> </u>
ŀ					\vdash	-	\vdash	: [
ŀ					†					<u> </u>
, [772.5								25	Adi No recovery.
									1	
ŀ							\sqcup			
ŀ		•			-			1	6	
ŀ					+		\vdash			
t					1					
Ī			·						ļ 7	Change in Literacy
								A	4 ′	
ļ					-					
ŀ					-		\vdash	1		
ŀ					_		$\vdash \vdash$		8	
t								レ		
								M	4	
								Ī	9	
, ["	
								1	1	
ŀ					_		$\vdash \vdash$			
il L	•				i				1	

			#50 L	. MONT		420	· · ·	Weill '	TNG I	ENGINEERS, INC.	SWMU No. (
		LOGI	ST 2							TOOELE ARMY DEPOT NORTH AREA	Page 4
	DATE								_	,	<u> 411</u>
	SAMPLE INTERVAL	WS 16 IN	USCS SYMBOL	MUNSELL	%GRAVEL GRAVEL	O.S.	KFINES	GRAPHIC LOG	DEPTH IN FEET	WATER LEVEL TIME DATE LITHOLOGIC DESCRIPTION (USC name, cotor, size and angularity of each compor	
			1	₹8	38			8 ≥	30		S) COMMENT
.3:05	30-516	40	ML	PACA	0-7	36	44	ML		Low PLASTICITY, Law STIPPINES,	164 200
									.	SANDY SILT. SAND IS VERY FOR &	
							_		1	FINE, SHE MERINE + SHE-ROAND	
				<u> </u>					2		
				1			1		-		
									3		
							_				
									4		
i					-	-					
		140				152			35		
3:15	35-76.K	49	ML	DACA	0	20	- 77	M.L		Most, reliant brown, Low PLASKITY, Low STARRIES, SILT W/ SAND. SAND	- 18" (150
		18								VERY PINE, -ub-a-paler to Jule- rea	
		31			-	<u> </u>	_		6		
						_	_		_		
									7		
							<u> </u>				
									8		
					_		<u> </u>				
					-	_			9		
250											
2					-	-	_				
6 1	-	4 - 4	/ E =		<u> </u>	<u> </u>			<u></u>		
2	*		/ = #	,,							
ROLECT NO. 2942.0120)									

		JAN	ies M	. MON	rgoi	AER'	/, CO	NSUL	TI.	NG E		U No. 1
	GEO	LOGI	ST_3	-Hora	lam	~ /	F.	Mor	4	<u>~</u>	TOUELE ARMY DEPUT	8 No.
	DATE		7/2	14/91	<u> </u>				_		NORTH AREA	of 11
i									ĺ		WATER LEVEL TIME DATE	
	SAMPLE INTERVAL	BLOWS PER 6 IN.	USCS SYMBOL	MUNSELL	%GRAVEL GRAVEL	%SAND	%FINES	GRAPHIC	3	DEPTH IN FEET	LITHOLOGIC DESCRIPTION (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts)	FIDE OF COMMENT
13:35	40-465	17	ML	INYRY	0	120	Z.	-41	- 1	40	most, velloush brown, No to Low PLATER	. 0
								ML	1		AN TOWN STIFFINGT, SILT WIS AND.	
		27							I		SAND - VERY FIRE, 500 - ongula.	
		100				<u> </u>			İ	1		
		46							ı	i		
		-		! 	-	_			I	i		
			i —									
										2		
		ļ	ļ 									
				<u> </u>	\vdash	\vdash	Н.			3		
					\vdash							
									-			
										4		
												-
							<u> </u>	V		45		
		•						ML			A.A.	
										اً		
		<u>. </u>	·							6		
										7		
										•	Pichons we a few scalled price	
											at worst grand	
				_						8		
										9		
61										•		
7120												
								-				
		İ						V	ļ			
2			w/=	nith								•
PROJECT NO.	*											
Ě		}										
¥											·	

SWMU No. JAMES M. MONTGOMERY. CONSULTING ENGINEERS, INC. Same No. GEOLOGIST B. Hollany / F. Mareton TOOELE ARMY DEPOT NORTH AREA DATE of 11 WATER LEVEL TIME DATE SAMPLE INTERVAL FID/FID READING OR COMMENT GRAPHIC LITHOLOGIC DESCRIPTION MUNSELL BLOWS PER 6 IN DEPTH IN FEET USCS (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 50 stought 13165 10 190 194 M 0 T rellowed Lrown, low plantwith CYClark STITLAGE. SILT W/SAND. SAND- YELY FINE, SHE-ANGRIAL. 1 2 3 55 7 Lithology, hit souls 8 POJECT NO. 2942.0120 A.4 : 45 4604. اء مدال

SWMU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST B. Hadamay F. Marston DATE 7/29/92 TOOELE ARMY DEPOT **NORTH AREA** TIME WATER LEVEL DATE FIDIPID READING MUNSELL GRAPHIC LITHOLOGIC DESCRIPTION O W FEET USCS (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 60 15:00 GM 11042 7 10 15 From eye GY BROWN, LOW PLASTICITY. STIPPNES, SITTY GAME. COTING BRAUGE -FINE to LOARSE, IMB-ANGELAR. SAND -3 1 65 dustas SLILARY IN MUSTICE i i 8 1 ROLECT NO.

SWMU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. SSE No. GEOLOGIST B. Hadeney / F. More Even TOOELE ARMY DEPOT Page P NORTH AREA DATE . of 11 WATER LEVEL TIME DATE LITHOLOGIC DESCRIPTION SAMPLE FIDATIO READING MUNSELL GRAPHIC BLOWS PER 6 IN. DEPTH IN FEET USCS (USC name, color, size and angularity of each component OR COMMENT or plasticity, density, moisture content; additional facts) 15:26 70 plightly ment & DAY / Villeman brown, INK % SHOLE. alta M CIETY GLAVEL W/SAND. show - live the coass. SUB-ANGALAR. 6 M GANGL- FINE to COMESE, CHB-ROWAS ANGULAR. 2 3 CHARLE IN LITHOUGH- NO BEAMEL. TOME 84 0 35 65 1540 75-75 17 ML 7-5 Sloghtly make To last whent & BLAD PLASTERS 29 DR STIPPMES, GARD SIST. ML SAND - VERY FINE to FINE, SUB-ANNUA. 40 6 7 8 9 NO. 2942.0120 BL. - BAWN w/2 with ROJECT

WATER LEVEL TIME DATE LITHOLOGIC DESCRIPTION USC TIME COLOR: size and angularity of each component of pasticity, density, monsture content; additional facts) TO STATE OF S		GEOL DATE			. MON . Hold 7/92						TOOELE ARMY DEPOT NORTH AREA SWMU No. Page	
SEE SEE SEE SEE SEE SEE SEE SEE SEE SEE	-					1	1					
GO DE SANTO STATE O SANTO STATE OF THE SANTON	T TOWN	MTERVAL	BLOWS PER 6 IN	USCS	MUNSELL	*GRAVEL GRAVEL	%SAND	%FINES	GRAPHIC	DEPTH IN FEET	LITHOLOGIC DESCRIPTION (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts)	MENT
SAND - YEN FINE & FINE, SAND A STAND - YEN FINE & FINE, SAND A STAND - YEN FINE & FINE, SAND AND SAND AND SAND - YEN FINE & FINE, SAND AND SAND - YEN FINE & FINE, SAND AND SAND - YEN FINE & FINE, SAND AND SAND - YEN FINE & FINE, SAND AND SAND - YEN FINE & FINE, SAND AND SAND - YEN FINE & FINE, SAND AND SAND - YEN FINE & FINE, SAND AND SAND - YEN FINE & FINE & FINE, SAND AND SAND - YEN FINE &				l						70	dry, Yellowsu Blown, Low PLASHERY O	
3 3 3 4 4 6 7 7 8 6 10 10 10 10 10 10 10 10 10 10 10 10 10	F					-	├—		ML		SAND - VERY FINE & FIRE SAND	Real
25			17							1		
Sold and the state of the state			25							'		
Service of the servic	-			-								彐
8 LA. STATE OF THE										2		\Box
8 LA. STATE OF THE	-			<u>: </u>		-	-					
8 LA. STATE OF THE		-										
8 The state of the	<u> </u>			 		├	_			3		
8 Sing Wilders, comes of grad of the collection, comes of grad of the collection, comes of grad of the collection, comes of grad of the collection, comes of grad of the collection, comes of grad of the collection, comes of grad of the collection, comes of grad of the collection, comes of grad of the collection, comes of grad of the collection of the co					!	 -				l	 	\dashv
8 September 1 sept									1			
8 and selders, Loss Thomas St.	/ -					-				4	 	
8 and others, command grand of the state of												
8 and selders, Less Them 5%	<u> </u>											
8 and order of the second of t	"" 					-	i	-		\$ 5	A	me Thats
8 The tributery, common note great of the control o									Ĩ		Al-	
8 The tributery, comments great of the same of the sam										1		
8 The tributery, common note great of the control o	-					-	1	-		6		
8 The introduction and good of the sale is the same of												
8 The introduction and good of the color of												
Residence of the second	<u> </u>					 	-			7		
Residence of the second of the												
Residence of the second of the												
	-					├	-		- //-	- 8	1	
	-					 		_	ML			
	81	_						_		1		
2 = 4 = gradation						<u> </u>		<u> </u>			<u> </u>	
· · · · · · · · · · · · · · · · · · ·	2		ż	-11	- 5	90	ad a	H				
g = + = qradstin	ច្ឆ											

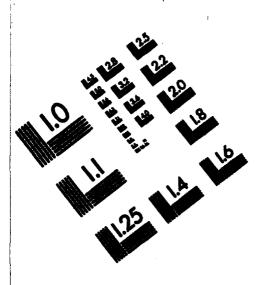
SWMU No. 1 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. BETTE No. DATE _ 7/27/42 TOOELE ARMY DEPOT Page 10 NORTH AREA of _\(\) WATER LEVEL TIME DATE FIDIFID READING OR COMMENT SAMPLE INTERVAL GRAPHIC LOG LITHOLOGIC DESCRIPTION *GRAVEL MUNSELL BLOWS PER 6 IN. DEPTH IN FEET %SAND (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 90 18424 35 45 15 909521 Clinkly most, Killwish Brown, 0.0 AL Ila rec LOW PLATTICITY & 3718F-1003, 38 Gravelly SILT W/ SAND. SAND - PIPE to LOARSE, 348-ANGREAL, 30 CLARGE - FIRST CORREST, SUB-ANIMAL 10 SUB-Round. 2 3 . ļ 95 ŧ 1 6 1 7 1 6u-6-١ ĺ 8 ! 9 1 w/= with = gradetion

POJECT NO. 2942.0120

6:15

SWMU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST & who Warry / F. marton TOOELE ARMY DEPOT **NORTH AREA WATER LEVEL** TIME DATE SAMPLE INTERVAL LITHOLOGIC DESCRIPTION POPTE GRAPHIC BLOWS PER 6 IN MUNSELL DEPTH IN FEET (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 16:35 100 3.0 INYAY. NOW-COHEIVE, MY, PALE BROWN, MEDIUM TO LIN DERTY 60 GANDED GRAVEL W/ SILT. 20 SAND-FINE TO MENUA, ANGULAL TO 34 SUB-ANGMAR. BLAVEL - FINE TO COARSE, SUB- 2000 TO ANGREAS. 1015 3 5 6 7 8 PROJECT NO. 2942.0120 WELIH

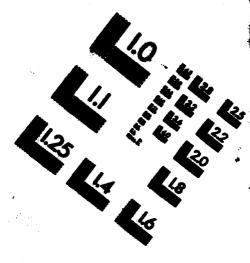
TOOELE ARMY DEPORT-NORTH AREA SUSPECTED RELEASES SWHUS AD-A282 574 VOLUME 2 APPRENDICES A - J REVISION(U) MONTGOMERY WATSON WALNUT CREEK CA DEC 93 XA-USAEC NL UNCLASSIFIED DAAA15-90-D-0011 2536





Accordation for information and image tilenegomen

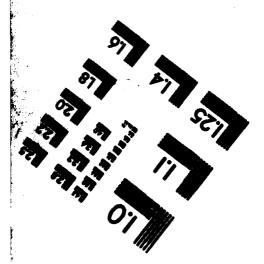
1100 Wayne Avenue, Suite 1100 Silver Spring, Maryland 20010 301/587-8202



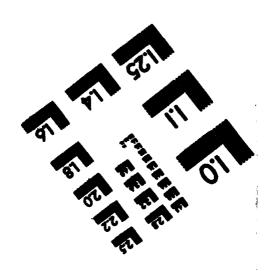
Centimeter

| 1.1 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8

1.25 1.4 16



MANUFACTURED TO AIIM STANDARDS BY APPLIED IMAGE, INC.



MANU No.0 **SOIL BORING LOG** SR-01-4 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. **LOCATION of Soil Borings** Of_ LOG SHEET NUMBER (Borerpage no.) GEOLOGIST B. HOLDANAY / F. MORETON Foot N.S. Feet E.W. LAYNE of Survey Ret. DRILLING CONTRACTOR DRILL RIG AP 1800 PERLUCCION HUMBER **BORING DIAMETER.** TYPE OF SAMPLE. FLUID LEVEL DATE STARTED 7/26/92 TIME DATE 7/26/02 DATE FINISHED HOLE DEPTH | 100 PF March 7/26/92 GROUT 1/27/92 GRAPHIC LOG DEPTH IN FEET 1320 LITHOLOGIC DESCRIPTION is ballded. byer 0.0 dedung CILT WI SAND. VERY FINE to FME, 348-4040 3 1012 \$ 0 75 DOS 5-6.57 brown, low to maket 0.0 low to medicate stillers. con CLAY. SAND IS MAN Sug-Aguas. 7 2942.0120 m/ = w 578 HOLECT NO. TEAD-N PHASE I RFI

									_		l eu	MU No.et
	1			_							engineers, inc.	my No. 00 5
	GEO	LOGI	st 🛭	Hord	-	1	F	Ma		/~/	TOOELE ARMY DEPUT	
	DATI	<u> </u>	7/1	4/12							NORTH AREA	of 11
				<u> </u>							WATER LEVEL TIME DATE	
	ير ا	_	١.	ہا ا	ᆵ.			ပ		_	LITHOLOGIC DEPOSITION	FIDERIO
	SAMPLE	BLOWS PER 6 IN	USCS	MUNSELL	%GRAVEL GRAVEL	*SAND	KFINES	GRAPHIC	_	DEPTH IN FEET	(USC name, color, size and angularity of each component	FIDIPID READING OR
	S E	35	USCS	38	2 5	% 8/	7	중	9	,		COMMENT
1366	10-11-5	6	ce	by A. X	0	195	90	C	,	10	Mist, dark brown, law to mappeare	15" recor
		6									PLATILITY, LOV TO MODELES STIPPINGS	
	}	6	<u> </u>	ļ	ļ				.		LEAN CLAY W/ SAME, SAME VEEN FAME,	
13 50	n.5-16	 _	ML	2514	No.	25	5 4			1 1	Cables & good on USfeet.	
24 (1107-11		79.5	7	7			M	니	1		
										J	4015t, light yellow borners, low plasticuty,	Fran
	<u> </u>	-	<u> </u>	ļ						2	for to work chances, 5 tony sut w/	CHLLONE
	<u> </u>										GRAVEL. SAND - FINE, SHE-AMERICA &	
											SAG-RANGO.	
										3		
_	<u> </u>	-	 									
										•		
	<u> </u>	<u> </u>										
1400	15-16-5	26	444	2.577	10	45	15			_	chaptly musts rest yellow brown, trave	0-0
	7.64	45				-			İ	15	THATTERY, MODELNE STIREMES	
		BH									SAMON SILT	
		4									GARD - V. BIAC & PINE, SUB-ALREAD	
		77								6	to Sue - Ranch.	
								JA!				
			ļ							7		<u> </u>
			-	<u> </u>								
										8		
				<u> </u>								
			_	<u> </u>								
												
~1										9		
128												
A Y												
A SI				<u></u>								L
PROJECT NO. 29-4: 0120		_)=4									
ECT		•	// F W	ווזצי								
2		•	, = VI	M								
*	ستسبب	_			_	~						

.

SWMU No. / JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST B. Lbidany / G. Moreton TOOELE ARMY DEPOT 7/24/92 **NORTH AREA** of 1 WATER LEVEL TIME DATE PID/PID READING GRAPHIC LITHOLOGIC DESCRIPTION SAMPLE INTERVAL DEPTH IN FEET (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 20 most, pale bound, law 12-45TICITY, ō 410 18" Res LOW STIBMES, SIH W/ SAM. ML SAND - YORY FINE, SAR-AMERICAL TO 16 SME-ROLMO. 2 3 1420 25-24 15 MLDS/14 0 15 95 Most, light alive Basses, law PLASTERY, AW TO NO STIPPINGS, SILT WY SAND. 51 SAMS - VERY POR, SAB-MAKER. 15 6 n 7 9 ROJECT NO. 2942.0120 S. E SIMMIY NO WEN

	GEO!			. MON - Ha - 4/42							engineers, inc.	IU No. o (R No.
	BAMPLE NTERVAL	WS E	USCS SYMBOL	SELL	%GRAVEL GRAVEL	KSAND	%FINES	PHIC	100	DEPTH IN FEET	WATER LEVEL TIME DATE LITHOLOGIC DESCRIPTION (USC name, color, size and angularity of each component	FIDIPID READING OR
143	30-34-5	PER CH		SOLOA MENOSE	<u> </u>	83 1550		8	100	\$0		COMMENT
		15						Ac	٢	1	SAND - V. FINE 418-INCHAE.	
										2		
										3		
										4		
1450	9F-3LS	1	ML	ione Si	0	700	Jø.	351		35		0 2" @,
		7						4	7		SAND SILT. SAND VERY PINE & LONGSO, SUB-	
										6		
										7		
									م	PAG		
02.00								8	4	9		
OLECT NO. 2942.0120	.aaa	•	de m	STH GP4				<u> </u>	<u></u>			

SWMU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST B. Haldan / F. Mereter TOOELE ARMY DEPOT NORTH AREA DATE. of _____ WATER LEVEL TIME DATE LITHOLOGIC DESCRIPTION FIDIPID READING BLOWS PER 6 IN GRAPHIC LOG DEPTH IN FEET (USC name, color, size and angularity of each compor plasticity, density, moisture content; additions 40 34 5:05 40-44 GA LOK 4 L W. Brown, None to Law 0 14" foca an Stiffers, GILTY GRAVEL W/ SAN 41 RAND - VERY FIRE TO FIRE, SIB-MEN REMOR - FAR to CONSEISHE SUB-ANGULE 45 P foreneal. 2 3 4-41 A.A. @ 35 PM P.0 16" Asserts 22 2m 0464 40 35 30 porto grand & whiles @ 46'. Slightly most, 70 AN MAN-COMBINE, SILTY LEASE WI SAND, GRADE FOR TO CHARSE, SAND-KALLE. SAND - FIRE TO MEDIUM, SA ROJECT NO. 2942.0120 v. = very AALES MINE

	f														
	ł	JAI	MES A	l Mon	TGO	MER	Y, CC	MSU	TING) E	NGINEERS, INC.				U No. (
	GEO	ı ogı	ST 8	. Hole 26/4	land	17/	IF	. عام	reb	J	TOOELE AR	MY DEPOT	1		8 No.
	DAT	E	7.5	26/4	ı					_	NORTH	AREA	ĺ	Pag	oi
		1	- 		ī	Τ-	1	1	-	-		50.00			<u> </u>
		İ		1.		ĺ				j		TIME	DATE		
	SAMPLE NTERVAL	€ ₹		MUNSELL	KGRAVEL GRAVEL	9	83	GRAPHIC	Ξ!		LITHOLOGI (USC name, color, size at	IC DESCRIPTION and appropriately of each	h compon	_	FID/PID READING
	BAMPLE NTERV	BLOWS PER 6 IN	USCS SYMBOL		*GRAVEI	KSAND	KFINES	38	DEPTH		or plasticity, density, moi				OR
		1	1		1	1 -	,	03	5	0				_	
ाट्य	G-45	54	GM	PICX	40	25	35	60			by dak yellon		K.		3.0
		1	-	 	-	-					SILTY GRAVEL W	SÁND.		-	HCKE
		50	1	 	 	一						ALIE, SHR-A	NGDL AV	15	
									1	1		HOLL - FINEY			
		14							İ		Avenues to SAB	- Kourb.		7	
		 	 	ļ	 —	<u> </u>			į				····		
		<u> </u>	┼		┼─	-			:	2		***************************************			
			+	1	 	-								_	
		İ		<u> </u>	İ										
									1	3					
		ļ	↓		 	<u> </u>			`				<u> </u>	_	
		 	├		-		ļ					· · · · · · · · · · · · · · · · · · ·			
		_			-			1 1	ŀ					\dashv	
		 	 						4	4	<u> </u>			+	
					İ				1						
									1						
میرس.					<u> </u>				1 :	5				_	<u>~0</u>
1548	35	50	-		-	-			1				<u></u>		e Front
			-		<u> </u>		_			i		-		一十	
	1								1.						
	Y							Н	' !	5					
	565			ļ		<u> </u>			1					_	
						 	-					· ·			
			-	 -		-			;	7				\dashv	
														_†	
ľ															
										9					
ı			少风	may.	76	72	30	61	\		ELMAST BACHN UND	MANAGE AND AND	PHILIPS.	<u> </u>	ATM
						_				ı	HAND PONS TO	A CHAINE W/ E	POD.	4	PROM
ŀ			-			 					TO SURPOWE SAME	0 Fall 70 co	ALIF	-	CHIDAS
									1	9	Subanharak			寸	
0219															
					<u> </u>				<u> </u>						
₹	<u></u>	w	/ • u	orth . SUSSE	.										
	٨	S.	L.F	SUR	77			•							
POECT)													
8															

SWMU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. Bartle Rd-Freeton BHarry GEOLOGIST _ TOOELE ARMY DEPOT **NORTH AREA** DATE of _______ TIME **WATER LEVEL** DATE SAMPLE INTERVAL FID/PID READING MUNSELL LITHOLOGIC DESCRIPTION BLOWS PER 6 IN. DEPTH IN FEET (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 60 NO SHALLE THEEN HT THE ENTENNE CHAVES AT CHCLONE, AS ABOVE. 1 2 3 NOSANCIE THERE AS THES 65 in STOWAL GN 10129 50 30 20 SI MOSET BROWN, WHICH SOUPHIED, NO purcesty, 20 staffable laty MUNT GAMPR - SAND, HANG PARETO LOUBLE, SUBArtHLAR TO SURPOMP CHTTE SAM PENE TO CONRIE SURAFHUML 7 CHANG SO LATEON ATE 68. St & Stanto MON WELL

NO. 2942.0120

POECT

,																	
		JAB	ŒS V	L MON	rgoi	ÆR'	r. co	MSUL	TING	EN	GINEERS,	NC.			L		U No. 1
	•						_				-				ſ	Born.	Rhaz
	GEO	LOGI	ST_	FNO	167	ומס	<u> </u>	HOL	MA	<u> </u>	TO	DELE A			}	Pag	
	DATE				7/26	192	•			_		NORI	TH ARE	EA	ł	Pag	of _[/
								r	, 	_							<u> </u>
			ļ	ĺ	1	l	l		1	ı	WATER LE	VEL	TIME		DATE		
	ہے	نہا		=	ᆲ		_	ပ္	1.	_ [ЦТНОЦ	OGIC DES	CRIPTION			FID/PID READING
	SAMPLE INTERVAL	BLOWS PER 6 IN	USCS	MUNSELL	SCORAVE GRAVEL	%SAND	%FINES	GRAPHIC	DEPTH		(USC name				т сопрог	nent	READING OR
	8 E	5 E	ÿ ₹	133	\$	ş	Ę	₹ 8		Ž				ontent; addi			COMMENT
		00	L			·	1	03	70	\wedge \perp	يعن وسعد مدين في المراجع						
1607	70	11	CL	MAKE	0	10	90	CL	. "		nation ye						-
	1	11									RASTIZI	TY, 100	ELATE	STATEN	ess,		84
		1	1								LEAN CL	My 5	APP, 48	'AY FORE,	Sugar	and A	LEBOOM
	1,	73						1 1	1.	. Г.	sulle and						
	-	1							1	¹			<u>-</u>				
	745	175						1 1	1					<u> </u>			
					İ			1 1	1								
•								1 1	1.								
			1					1 1	1 2	2 -							
		<u> </u>			i			1 1		H							
		. 			1	-		1 1		H						-	
		-	-		 		 	ł /		H						-+	
			-		 	<u> </u>	-	 	- 3	3 -	_					_	
				 	 	-			1	⊢						-+	
_			_	<u> </u>		-		1	1	-							
					 	 		<u> </u>		Ļ						-	
			-	<u> </u>				60	1 4	4 -		 					
					ļ	<u> </u>		60	, I	┡	_					-+	
			<u> </u>		ļ	<u> </u>		7		<u> </u> _						_	
										L						_	
			200		4 -	<u> </u>		1 1	17:	5 -	44 4 4						- 100
				10 18 1	60	30	10	11	1	` <i> </i>	par s			De la constante			10/16
			T		<u> </u>					4	HIND H			r spill.		- 1	
						<u></u>			1	L	FINE TO	COMP		NO FSI		/	
									. ا	<i>ا</i> ا	H ATUM	SARA	stal M	TO SUR	Rps. D.	6	Acrong
									`	Ľ		<u> </u>				10	wants
									1	L							
									.	, [
									1 '	' [
] [Γ							
] [1.	٦,							
									°	8 -							
										Γ							
								1 1	1	T							
								1 1	1.	.							
								1 [1 8	9 -			·				
52						_	-		1	r							
									1	┢						-+	
						—		1.		F							
Sill			<u> </u>				l	L	-					-			
9	1	. •	1/6 .	511													
ROJECT NO.	_																
2																	
1 5)															
.																	

DATE	<u> </u>			I		l	Ī	ann	NORTH AREA Page of
SAMPLE INTERVAL	BLOWS PER 6 IN.	USCS SYMBOL	MINISELL	%GRAVEL GRAVEL	WSAND	%FINES	GRAPHIC	DEPTH	LITHOLOGIC DESCRIPTION (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts)
							60.	80	MOSAMILE THEST HT THES GITTINET. HOWER HT CYCLONE, MS MENE.
								1	
								2	
								3	
								8 5	NO SAMILE THERE HT THE SHOWN.
								6	
								7	
								8	
								9	
								<u> </u>	l.

	GEO! DATE	LOGI	ST_	Fra)~/	_			TOOELE ARMY DEPOT NORTH AREA	MU No. pring No. get LO of L
									1	WATER LEVEL TIME DATE	
	SAMPLE INTERVAL	BLOWS PER 6 IN.	USCS	MUNSELL	*GRAVEL GRAVEL	%SAND	%FINES	GRAPHIC	DEPTH IN FEET	LITHOLOGIC DESCRIPTION (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts)	FIDIPIE READIN OR COMME
yr [40	50						6.4	90	LOOSE GRANEL OUT OF SPLET SPOON, NOT	0
		70								REMUSE ATHENE OF ISTIDION.	6"
- 1					 	<u> </u>		1			Plan
ı	4				├	 	├		1		
ŀ	91.5				╁	1	-	1			
ŀ	712				 	<u> </u>	-	1	1		
ı								j			
						1]	2		
					<u> </u>						
ŀ			<u> </u>	<u> </u>		<u>! </u>	 				ļ
ŀ			<u> </u>		├-	! 	-		3		+
ŀ					+-	! 	 				
ł					+-		\vdash	1			
t								1 1	\ _		
Ì]	4		
I								1		WATER ON POR DUST SHIRESSON EN	
Ļ	2.4							1 /		GEOTERHARING SAMPLE COLLECTED @ 95	
F	950		GW	ONE &	ex.	15	5	6W	75	YELLOWSH, BROWN ANCONSOCS FOR WELL	9/0 5
ŀ					-	<u> </u>			1	The state of the s	5/20
ŀ					-		 	1	1	TO COARSE SUBHILLY TO SUBMIND.	
Ì				-		Ì		1			——
ı						İ		1	6		İ
									1		
1					_		<u> </u>		7		1
ŀ					<u> </u>	<u> </u>	-	1			1
ŀ					-	-	\vdash	1 1			
ŀ					\vdash			11	_		1
t								1	8		
]			
									-		1
Ļ								1 1	9		
ıŀ				ļ			<u> </u>				-
					<u> </u>	<u> </u>	<u> </u>				
ŀ					 	-	-	1	1		-
! -			<u> </u>	-	<u>. </u>	-	<u> </u>				
HOLECT NO.	<u>-</u>		rf (AT MARK							

SWMU No JAMES M. MONTGOMERY. CONSULTING ENGINEERS, INC. DATE T: 26/92 **TOOELE ARMY DEPOT** Page 1' **NORTH AREA** WATER LEVEL TIME DATE FID/PID READING GRAPHIC LITHOLOGIC DESCRIPTION MUNSELL *GRAVEL GRAVEL BLOWS PER 6 IN. DEPTH IN FEET (USC name, color, size and angularity of each component OR COMMENT or plasticity, density, moisture content; additional facts) 50 GW 100 75 20 5 16'0 1795 YRWEY MAN, DENSE, WEN MANOR WHEN I SAND, GRAVE FORE TO LONGE 10-SARANIMAR TO SOME ROAD, SAND RECOVERY PENETU COMPSE SUBANALAL. 101.5 10. 2 TOTAL DENT OF THE BOUGHT WORK 101.5 10" DRAL PAE SS 100' THE SPLAT 1 SPOON WAS DRIVED AHEAD INTENAL BESTY 100 -1015 i 3 5 6 7 8 9 ROJECT NO. 2942.0120 ME Wat

SWMU No. 0 SOIL BORING LOG JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. **LCCATION of Soil Borings** LOG SHEET NUMBER (Bore/page no.) GEOLOGIST F. MARETON / B. HOLOTHIM Feet N.S. DATE____ Feet E.W. LHINE DRILLING CONTRACTOR. of Survey Ret. PETICUSCIPON I HAMAN BA AP 1000 DRILL RIG. BORING DIAMETER. SPT TYPE OF SAMPLE FLUID LEVEL DATE STARTED 7/25/92 TIME DATE 17/26/92 DATE FINISHED HOLE DEPTH I 91 GRAPHIC LOG DEPTH N FEET FID/PID NTERVAL LITHOLOGIC READING DESCRIPTION 0 % % PANAL mye & DM. DARK YOUNG HOWN, LOW of LOW STREPHES MSSIT SAND VEM FAME SUBROWNO 3 ML -124 0 40 68 SLIMOTE PIME Y PRIORITH BLOW 12 LOW PLASTESTY, LOW TO MODERATE 9 STATINGS SANDY CET. SAND 6.6 NET PANE TO PROVE, SURPAND. 8 9 SLE SLEWIRT SS- SURMIE SMANE PROJECT NO. TEAD-N PHASE I RFI

1600

1617

2942.0120

SWMU No. 21 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST F. MOREN A HOLATHIM TOOELE ARMY DEPOT NORTH AREA of ____ WATER LEVEL TIME DATE SAMPLE INTERVAL FID/PID READING LITHOLOGIC DESCRIPTION GRAPHIC LOG DEPTH IN FEET BLOWS PER 6 IN. USCS SYMBO (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 10 MLWAG 0 25 75 SLAWRY MEST YPUMER H 4 1636 MODERATE HOST FAM PUSCOSTY. STAFFNESS, SELT WETH SAW. SAND REGIST VEM FORE TO PONE, SHE MANUALAR SUBROWR 2 3 15 AL WAR 4 0 20 80 SLAGST, LEGHT PPLONSH Chan 1700 LOW TO MODERNY PLIE DESTY, LOW STEFFANTS SELT W/ HANGE. SIT SAM SAM YOM PANE SURANDON TO SUBROWN 7 8 9 PROJECT NO. 2942.0120 SLISLEWMY 4/5 4594

SWMU No.0/ JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. Boring No. 084 GEOLOGIST F. MR ETW & HOLDAM DATE 7/25/92 **TOOELE ARMY DEPOT NORTH AREA** DATE of 1 WATER LEVEL TIME DATE SAMPLE INTERVAL FIDIPID READING GRAPHIC LITHOLOGIC DESCRIPTION BLOWS PER 6 IN. MUNSELL DEPTH IN FEET USCS (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 20 ML WYR 1 0 SLEAMEN MOSST, YELLOW MODERNIE Þ 1717 ML PLASTERSM, LOW STRAFFLESS, STORY WORLD SAM SAM JENY FENETO PONE Lean subhome. 21.5 11 2 3 15 AB ABOVE AT CYCLONE NO ML 6 7 better treased at some former MT 2 28' HANDER LETHOLD = 28.5" SET DESCRIPTION NOT MAKE 9

PROJECT NO. 25-4-0120

SWMU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST F. MARRY L HUENTH TOOELE ARMY DEPOT **NORTH AREA** DATE -**WATER LEVEL** TIME DATE FIDATIO READING SAMPLE INTERVAL LITHOLOGIC DESCRIPTION DEPTH IN FEET (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 30 1736 30 - 40 25 15 4 SAMUE DESCRIBED FROM CYCLOR CUTEDIS S" DAY, BROWN DENSE, SETTY WOMER WITH SAIN, GRANGE PAND TO COMPSE, IND Lower 4 M ANALAR SOME COPELES SUBROUND SAIN VERY FORE TO COMES, SUBMULAR 31.5 2 3 NO SHALL THEN AT THE SUTERIAL. 35 6M WHITH AS MENT AT LYCLONE 8 CHANGE OF LETHOUSY @ 8 38.6 SEE DESCRIPTION NEWS PART ROJECT NO. 2942.0120 Q.M

	-		-			-	_	-									
		JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.													SWMU NoO /		
	1	w 00°	CT	F. M.	NOW B. HOWAMAY						TOOELE	1	Boring No.				
		E	51 —	7/25/92							NOR		Page				
	DAT	<u> </u>				1					,				of <u>11</u>		
		1					! 				WATER LEVEL	TIME	<u> </u>	DATE			
1754	 ₹	_ =	۳ ا	#_	#			ي)	= 15	LITHOL	OGIC DESCR			FIDPID READING		
	4 E	SAMPLE INTERVAL BLOWS PER 6 IN. USCS SYMBOL			¥ *	¥	KFINES	GRAPHIC	5	DEPTH N FEET	(USC name, color, siz or plasticity, density,				''' i OR		
	35	関節	8 %	MUNISELL	*GRAVEL	1,2	7	8	2	5 3	or presucky, defleky,	moisture com	erit, accide	HEIHER	COMMENT		
	140			1012 T	10	1	76	- 85	-M	40	SI. MOSET.	y Block H	star,	10V 70			
		دنا				7]			MODERNIE PLAS	1367	מ כד מים	o Perio			
		124					_			İ	SAFFLESS SA	TW/SHA	O. SAM	1824	Rosery		
	1-1/2	1-	-			<u> </u>	<u> </u>	-	K	1	PEPE, SHBROWN	<i>)</i>					
	715	71.5 3		-	+++			L	l	THE IS A SET HAMEN'S TO A							
	7'3			 -							LOTAL CLAY,	/ //	70 4				
					†			1		١ _							
								1		2		· · · · · · · · · · · · · · · · · · ·					
							i		/	l	CHANGE AN L	17H0-00-1	ATZY	25.			
			2.4								SAMPLE DESIRE	PLYON F	m WEL	ONE			
_		ļ		MEG	60	30	(0			3	OLY Brown, me						
		 	60		 			•	~		backver w/ say				<u> </u>		
		-			 			6	M		TO COMPLE SUI						
								1 1			TO SUBAL FUL A		77-73				
								1 1		4	70 20,0 7,0 0 0 0,0						
								1		·							
										İ							
	<u> </u>									45	40.44	. 14/14:					
1815	45-	50		<u></u> _						'	AS ABOVE AT	CYCLON	 		No		
		 						1							REDICH		
	1							1		_							
	Y									6	-						
	46.5									1							
										1							
										7							
	-																
	-				-												
HOJECT NO. 2942.0120										1		· · · · · · · · · · · · · · · · · · ·					
	-									8							
										İ							
]	ll	[
										9							
										ľ							
																	
	 							l	6					***			
*			·						1	<u> </u>		-					
. 5		. 5	L.35	LANG	TY.												
5	A	•		, , , , , , , , , , , , , , , , , , , 													
4																	
×											·						

.

SWMU No JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. F.MOREON B. HOLANA TOOELE ARMY DEPOT GEOLOGIST. NORTH AREA DATE. WATER LEVEL TIME DATE PID/PID READING SAMPLE INTERVAL LITHOLOGIC DESCRIPTION DEPTH IN FEET (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 50 0300 2 3 55 MA -230 Ð 6 7 ROJECT NO. 2942.0120 W/ = mt.

						-				ENGINEERS, INC.				MU No. O
GEO	LOGI	ST_	F. plad 7	126	1/6	HO	LAA			TOOKLE ARMY DEPUT			_	ge _7 of ∐
										WATER LEVEL	TIME	DATE		
SAMPLE INTERVAL	BLOWS PER 6 IN.	SAMBOL	MUNSELL	*GRAVEL GRAVEL	%8AND	*FINES	GRAPHIC	50 3	O WFEET	LITHOLOGIC DESCRIPTION (USC name, color, size and angularity of each compone or plasticity, density, moisture content; additional facts) LIO CARGE THESE AT THESE ANTWORKS.			15)	FIDIPID READING OR COMMEN
							61	'	60	AA. Gested.	SEANS TH	لحور ا		
					-		{	ł		DAST SUPPLEMENT	NOTE INTO			
									1					
		 -		<u> </u>	-			ı	•			<u> </u>		
	-			\vdash	-	-		ł						
							11		2					
								ı	2					
				┼	-			ļ						
								١	3					
								-	3					
				<u> </u>				ı						
				-		 			_					
							1		4					
				<u> </u>				Į						-
				-		-								
5	_	GM	0424	75	18	30	6	M	65	de dak volum	home, low	To me		Free
]	ı		Thestileton 100	Stallates, SIL	ty em	7	
								ı		W/ SAND.			<u>.</u>	
							!		6	sub-round. So	eres sure	median		
								1		Sub-rangelor + Se	b-0-d.			
							1	- [
								ĺ	7					
								ı				; ,		
								-						
								ļ.	8					
								1						-
								-	9					
								- [•					
								-						
								,						
	<u> </u>	/= *	1	_									-	

٠.

PROJECT NO. 2012.0120

JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST B. Holding / F. Mareton TOOELE ARMY DEPOT **NORTH AREA** DATE -WATER LEVEL TIME DATE SAMPLE INTERVAL LITHOLOGIC DESCRIPTION GRAPHIC LOG PID/PID READING DEPTH IN FEET (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 70 A.A. 2 3 GM 10424 440 15 25 0.0 6M 75 - fine to colles, 7 9 A. A. AS ABOVE

PROJECT NO. 2942.0120

SWMU No. -1 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. Bornes No. GEOLOGIST B. HEDDAY / F. MARETON TOOELE ARMY DEPOT Page 9 DATE __ 7/24/92 **NORTH AREA** of \bot WATER LEVEL TIME DATE FIDIPID READING OR COMMENT SAMPLE INTERVAL GRAPHIC LITHOLOGIC DESCRIPTION *GRAVEL GRAVEL MUNISELL DEPTH (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 70 GM No Recorny - was sushing 0. T 2 3 came material 75 60 CL MON D PERT 4 We wat

SECT IN S. -. OIL

SWMU No.4 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST B. Hay TOOELE ARMY DEPOT NORTH AREA WATER LEVEL TIME DATE SAMPLE INTERVAL GRAPHIC LOG LITHOLOGIC DESCRIPTION FIGHTO READING DEPTH IN FEET (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 90 3" Accorded 10-45 15 00 A-4. SACK INTO CRAVETS 150 GM 1 2 GM GM 1042456 15 26 95 75 world & Sub-Rough LARRIES. SIR-ANNOLAR & SIR-R WATER SUMMESSES ON POR USO-TELHNOCK SAMPLE TAKEN AT THE DATAL 7 TOLECT NO. 2942.0120 A.A. : MS ALONS

SWMU No. / JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. ories No. GEOLOGIST B. HOLDAWAY / F. MORETON TOOELE ARMY DEPOT Page // DATE 7/26/92 NORTH AREA of 11 TIME DATE WATER LEVEL SAMPLE INTERVAL - GRAPHIC LOG DEPTH O IN FEET LITHOLOGIC DESCRIPTION FIDIFID READING OR COMMENT MUNSELL (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 10-10-5 10 10:10 11 CL HOYEL O STILL made at alestrate underte LEAN CLAY W/ SAME. D CL FOR to capese, sub-angula + sak-レ 10,5 Lound. 2 3 5 6 7 9 4/2 4504

SOIL BORING LOG JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. **LOCATION of Soil Borings** 01 <u>//</u> LOG SHEET NUMBER (Borerpage no.)

GEOLOGIST F. MOLETON R. HOLETON 1997 Feet N.S. Feet E.W. LAYNE of Survey Ret. DRILLING CONTRACTOR N/-1009 ... DRILL RIG. ---10 ' ' **BORING DIAMETER.** 25 M SPT TYPE OF SAMPLE... FLUID LEVEL DATE STARTED 7/25/92 TIME DATE DATE FINISHED HOLE DEPTH 7-25-92 DEPTH GRAPHE FIDIFID LITHOLOGIC READING DESCRIPTION DRY BROWN, LOOSE SECTY GAMEL GAMEL FORETO CABLE, SUBANHALME TO Subland SAN VEN 130E COAKE, SUBMINE TO Sullowed. MONDAY GAMPIS + COROLLES P HELDE CATERIES 45 (1 me 2 5 15 16 DAY BROWN MAD PLASTERSH 50 13" LECONEY DSTATNESS, I WAN CLIM 6.5 SAND VORY FONE TO FENE SUPPLEALING, GAMEL FO TO COMPLET SUR ANDRUMP COBBLES UP TO 4" IN CYCLOS

œZ o

PROJECT NO. 2942-0129

TEAD-N PHASE I RFI

					_													
					TOO	ACC D	Y 00	wei		TNI	- THOMIS					Ī	SWMI	J No. 01
	1	JAR	Æ5 K									ers, Inc.				L-		Rb. OK
			OT.	F.N	(2)	70.	J/Z	ZH	61	DA	rty '	TOOFT	E AF	RMY DE	POT		Borting	No
		LOGI	21 —	2/2		7	/-							IAREA			Page	
	DAT	E			127				_		•	744	OILLI	I MANAGES		ł		of <u>//</u>
		1		l .		1	Ī			ļ	WATE	R LEVEL		TIME		DATE		
		1	l	1	١]	l			İ	WATE					DAIL		
	I₩₹	_ Z	+	1 # _	*GRAVEL		6	일		= =	1			MC DESCRI			١.	PID/PID READING
	SAMPLE	BLOWS PER 6 IN	USCS	MUNSEL	*GRAVEL	KSAND	KFINES	GRAPHIC	_	DEPTH IN FEET	(USC r			angularii			- A	OR
	35		USCS	<u>₹</u> 8	13 8	3	5	景	100	8 3	or pla	sticity, den	nsity, m	oisture conte	int; addit	ional facts	i) c	OMMENT
		-		1	L			I -		10	1		A - 4	7 4 6	. 45		_	
9253	10	20	135	was 5	25	60	1/5	51	7		26.00			N, NO P				B
			<u> </u>		<u> </u>	<u> </u>		11			572	FNES!			10		<u> </u>	"HERM
		2/			<u> </u>		<u> </u>	1 1		Ì	SAM	VERY	Ford	D Cath				
	П.	40						\			70 SI	IS Row	J. M	WER PS	של שני	CREU	-	
		71		1				1 1		'	SUB	ANTHEL	M 70	LHERO	w.	•		
	11.5	126			1			1 1					· · · · · · · · · · · · · · · · · · ·				十	
	''''	+		 	 			1										
		 	 	 	 	-					-			·			+	
					╁─	├				2								
		<u> </u>			-	-	ļ	1										
	<u> </u>	!	 	ļ	 	!		ł	١								-	
	<u> </u>				<u> </u>	<u> </u>		l	П									
			<u> </u>	<u> </u>	<u> </u>				ı	3								
		1					İ		ı									
								1	H									
j				1				1	₽ I							-		
								1					•				\neg	
		1			_		-		П	4	-						_	
					├		-	1	П									
		<u> </u>		 	-	-	-	ŀ	П								+	
						· ·		ŀ	П		1.49.4		1 - 0				-	
			1.5	-00		<u></u>		بكيد	Ł	15	LAL			m AT 10			"	
0920	15_		GA	HOTE &	**	2	15	5	۲.	"	St.C		MUS	H Rhow			_	1
	—	9		ļ	<u> </u>	<u> </u>			V	:	DENS		<u> </u>	GANEL		MA.	_	'Kenner
		10				Ĺ		611	١.		6-600	R PP	me 1	o colli	E SH	BNG		
		18								_	ULAR			4 BAE				
		7.								6	SUB	ANTHE	M				i	
	165	טכ																
														*			\neg	
					_		_										\dashv	
•							-			7								
													· · · · · · · · · · · · · · · · · · ·			-		
					 	<u> </u>	_											
					-												_	
							L			8								
								mi			LA	0464	CHA	NIS AT	3/8	• •		
								1,000			400	-0070		2010		45. P	M	
			ML	ON Sy	0	45	195		1		MOSS	T, 4594	MORA .	Marry 1	ow pe	4555	Y	
									ll		LOW	To adale		STATEM				
								<u>'</u>	1	9	SAM		W (AND YES		7-0	\vdash	
21														P POV	-	,,,		
250												5,386	LESON	To peo	, <u> </u>		+	
					_	-			١. ا		-				45.6			
									V		614	22 AM	O LEF	الملاي الما	M 3	70.		
2	£	\\ \\ \		L561	<u>.</u>							,						
2			- 3															
OECT			6 1	FTH	E F													
3)	•	FIN														
₽		•																

SWMU No. . JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. Borne No GEOLOGIST F, MARKON & HOLDSHAPY
DATE 7/25/92 TOOELE ARMY DEPOT Page __ NORTH AREA DATE of # WATER LEVEL TIME DATE SAMPLE INTERVAL FID/PID READING LITHOLOGIC DESCRIPTION GRAPHIC LOG DEPTH N FEET BLOWS PER 6 IN. (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 20 250 CL WYE FU 010 20 10 WET YELLOWEH BROW, MOD V PLIEBESTY. LOW TO MODERATE STAFFE LEAN CLAY, VERY PERESAMO, SUB Mond to Round 2 GADES FROM CLITY FMO STET 3 25 1000 MC 1078 % O 15 80 MARS PARE BROWN, LOW 6 LOW STORFFEELS 6 26.5 177 7 8 9 ROJECT NO. 2942.0120

	1													1	
	1		JAN	ŒS N	L MON	TGOI	MER'	r, cc	MSUL'	TING	ENGINEERS, INC.				MU No. 01
	ı										-	4 DAGE 50	nom.	Bot	AT RO. TOUS
		GEO	LOGI	ST_	F.M.	rke	70^	/_	. 101		77 TOOELE	ARMY DE	POT	<u> </u>	ge <u>4</u>
		DATE	E		7/2		92				. NOR	TH AREA		"	of //
					<u> </u>	i	_	i	i	T				_ <u></u>	
				i		İ	l	1		ł	WATER LEVEL	TIME	DATI	Ē	
		"₹	_ z	ر ا	≓ _			_	೪	- 5	ПІТНО	LOGIC DESCRI			FIDIPID
		38	\$ 5	တ္က 🗟	효윤	3 3	3	¥	Ĭ Š _	2 10	(USC name, color, si				READING OR
		SAMPLE	BLOWS PER 6 IN	USCS	MUNSELL	%GRAVEL GRAVEL	KSAND	KFINES	GRAPHIC LOG	DEPTH IN FEET	or plasticity, density	, moisture conte	ent; additional fa	icts)	COMMENT
	_	3				<u> L</u>	L		l	30		100 1 000	E 445		
100	٦	30	21	M	m pet 7	45.	100	65	ML		sightly most,			.00	
			-		L	<u> </u>			1 1	ł	TO MODERATE				18"
			17	<u> </u>		<u> </u>			! !		STAFNESL S			677	Person
	1	4	7	<u> </u>				 -	} }	1 1	FANT TO ME	out, subre	me.		
		<u> </u>	19			<u> </u>		<u> </u>					-		L
		31.5				lacksquare		<u> </u>	1 1	l					
	ı		<u> </u>	<u> </u>		<u> </u>		L	11		<u></u>				
	ı								11	2	osiksmi up i			· <u>E</u>	
				<u> </u>	<u> </u>	<u> </u>			11	-	CUTENLY AT				
											PREDOMENTI	ry Fore			
•															
										3					
										"					
									Į V	1					
_						<u> </u>			1		URHOTHE INT	o brave	4		
									GM						
					_					"					
	I									1					
										l					
							16			35					
i 03	3	35	Ch	GM	MES	40	40	ÿ	1	722	DRY GAMILET	BROWN	DENSE, SI	NY	æ
		1	70					k		ł		AND GA		770	124
										l	COMMES, SURA	wealth.	sand va	7	REDWAT
	I	Je								ء ا	FAME TO LON	ME, SUBA	HAUR		
	I								1	6					
	I	36.5							}	l					
	Ī								١ ١	l					
	Ì									-					
	Ì								1	7					
	ı								1					_ 	
	Ì									1					
	ı									_					
	ı									8		······································			
	ı									Į.					
	Ì									1					
	ł														
	ł									9					
8	21 t								1	l					
_	1					 				·					
									V	}					
*	HOLEGT NO.									<u> </u>	<u> </u>				
	9		•												
į	<u>.</u>	A													
ì	Z														!
	Ø		,												
	-														

SWMU No. 01 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. FAREDI B. HOLDONIN TOOELE ARMY DEPOT GEOLOGIST. NORTH AREA DATE. of LL **WATER LEVEL** TIME DATE SAMPLE INTERVAL GRAPHIC LOG LITHOLOGIC DESCRIPTION FID/PID READING DEPTH IN FEET (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 40 11.00 1032 SUBANTULA COMSE 465 2 3 45 1047 45 6 7 9 ROJECT NO. 2942.0120

GEO DATI		ST	F.MC						TOOELE ARMY DEPOT NORTH AREA SWMU Borns Page	R6
			4				U		WATER LEVEL TIME DATE LITHOLOGIC DESCRIPTION	FIOFFID
SAMPLE INTERVAL	BLOWS PER 6 IN	USCS	MUNSELL	*GRAVEL	*SAND	KFINES	GRAPHC LOG	DEPTH IN FEET	(USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts)	EADIN OR OMME
		•					GM T	20	NO SAMPLE THE HT THIS DETN.	
			•					1		
								2		
				_				3		
								4		
								55	NOSAMPLE THEON AT THES DUTTY, WHATELS AT CYCLAME AS ABOVE.	
								6		
								7		
			-w 1/2	59E	برجيد	35	al-	8	DAY, BADON, MACONDASSATION, WESL S	AN
							GM		GAMES CHAPT W/ SETT SPAR TO COMPLET W/ CHELES.	ALL AT
								9	SMERAHALAKE TO SMEROWAL SAND G FAME TO COMMES SMERO BOLLING	Year
						·				
	. (ve j	MEST	•						

SWMU No JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST F. MORETON B. HOGGAMY TOOELE ARMY DEPOT NORTH AREA d 11 TIME DATE WATER LEVEL SAMPLE INTERVAL GRAPHIC LOG DEPTH N FEET LITHOLOGIC DESCRIPTION FID/PID READING (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 60 noshappe them ht that perty 1 2 3 60 25 10124 450 30 104 45-464 7 8 9

listo

ROJECT NO. 2942.0120

SWMU No. #1 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST 3. Holdowy / F. Murchan DATE 7/25/92 TOOELE ARMY DEPOT Page _____8 **NORTH AREA** of <u>//</u> TIME DATE **WATER LEVEL** FID/FID READING OR COMMENT LITHOLOGIC DESCRIPTION GRAPHIC LOG MUNSELL *GRAVEL BLOWS PER 6 IN. DEPTH IN FEET USCS %FINES (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 70 70-76 Game material as above. GM 1 2 3 11397 75-76 75 6 سي 7 8 9 .0120 N.B. = No recovery

SWMU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST 3. LLL TOOELE ARMY DEPOT **NORTH AREA** DATE of IL WATER LEVEL TIME DATE PIDIFIG READING SAMPLE INTERVAL LITHOLOGIC DESCRIPTION %GRAVEL GRAVEL GRAPHIC DEPTH IN FEET USCS (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 40 A.A. Ciclonic GM عصد 1 2 3 6m 1044 46 15 986 5-35 In St. Hots, why are GM fract 7 day, highed yethersh bened moderate 37-77 CL OVER 15 35 داد edent stiffers lear clay. by fire, sal-me 9 ROLECT NO. 2942.0120 A.A = As abore 5. - slightly med. z moderate w/- -14

GEO DATI	LOGI	ST 3	- Hold 5/92		4 /	<u> </u>	Med	<u>eto-/</u>		ARMY DEP TH AREA	OT	Borag Page	
									WATER LEVEL	TIME	DATE		
SAMPLE INTERVAL	BLOWS PER 6 IN	USCS		*GRAVEL GRAVEL	<u> </u>	%FINES	GRAPHIC		(USC name, color, siz or plasticity, density,	OGIC DESCRIP to and angularity moisture content	of each compo	(3)	
70-74	50	1	PRE	40	30	1 1	GW-	170	to the day box		decety.	32	<u>}</u>
	1			╁	-	-	Ī		Card of me	14/ C1H A	cel Secoli Cabornal	-182	<u></u>
									Sand - fort	LARGE S	ub-ancela	c	_
								'			•		
			!		-	-		1		·			
								2			· · · · · · · · · · · · · · · · · · ·		
	1			ļ				•					
	1	 		 		-						-	_
								3					_
							}	"					
	 	_				-		İ					
								-					
				-									_
									As there				_
								13					
				-		_		1					
								6					
<u> </u>						<u> </u>	1 1	l				$-\!\!\!+\!\!\!\!-$	
								7					-
								1 ′					_
						-						-+-	
							1 1					士	_
								8					
-					-	<u> </u>	[[1				\dashv	
													_
								9					_
				-			<i> </i> /						
			. W					<u> </u>					
ئت		v. K. '	- 44	44.0		,							

SWMU No.01 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. F. poleto / B. Harmey 7/25/92 TOOELE ARMY DEPOT GEOLOGIST_ NORTH AREA DATE. of _L WATER LEVEL TIME DATE GRAPHIC LOG DEP IH IN FEET LITHOLOGIC DESCRIPTION PID/PID READING (USC name, color, size and angularity of each component or plasticity, density, moreture content; additional facts) 00 100 42 60 30 IM the sien DENSE WELL -0 med grower of south said. Game 6 of to confict, And furth to sul-61.5 10:5 2 3 5 6 7 8 9 200.00 2

SWALL No. 01 **SOIL BORING LOG** JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. **LOCATION of Soil Borings** Ot ____ LOG SHEET NUMBER (Bore/page no.) B. HOLDAWAY GEOLOGIST F. NOR ETON Feet N.S. DATE_ Feet E.W. LHYNE **DRILLING CONTRACTOR** of Survey Ret. HAMMER AP 1000 PECKSSON DRILL RIG. BORING DIAMETER TYPE OF SAMPLE FLUID LEVEL | DATE STARTED TIME DATE 12-30-92 DATE FINISHED HOLE DEPTH 7-30-92 GRAPHK LOG DEPTH IN FEET FID/FID LITHOLOGIC READUNG DESCRIPTION OR COM 0 0870 1 2 3 5 0837 SM 1078 7 0 80 20 DRY DAKK YEROUSH BROW, NO Sir TO UN PUBLICATE NO TO LOW 9 SUBROW PROJECT NO. 2942.0120 TEAD-N PHASE I RIFI

	GEO DATI	LOGI		F. A	taci Val	E70	۷, cc مر/ مر/	B.	TING HOLD		AU No. 6
										WATER LEVEL TIME DATE	
	SAMPLE INTERVAL	BLOWS PER 6 IN	USCS	MUNSELL	*GRAVEL GRAVEL	%SAND	%FINES	GRAPHIC	DEPTH IN FEET		FIDIPID READING OR COMMENT
857	10	10	10	POTE	0	7	15	SM	10	I GOVI , VALLEMENT & KILMEY NII PLESTEETY	tier .
	11.5		-	}	 			1		VETT PRIC , SURTHUR TO SURRING	28/00
								1	1		
		 	-	 	}—			} }	1	· · · · · · · · · · · · · · · · · · ·	
							_	:	· 27 .		
								1	. 2		
					 				-		
								'	1		
ĺ								1	1 3		
								} }	"		
			<u> </u>		-	_					
									١.		
									•		
					<u> </u>				1		
					_				1		00
18	15	15	26	WYP44	0	195	75	CL	15	MOTST I FINT Y BLOWER H Blown,	180
		15			<u> </u>					الجربي البنون فيتراث والسناب والملط البريس الكون أوانها والسال والمتالك وال	RE COVE
									1	STATINGS I MAN CLIM W STAR SAND	
	16.5								6	ROMAND TO ROMAND	
					_			1			
									7		
									1		
									Ī		
									8		
									4		
I									ł		
ļ								ML	9		
1 19											
								1			
OJECT NO. 2942.0120	<u></u>	•	4/2	GRAI VETT	ws v	£	170	,			

	GEO DATE	LOGI	ST_		ole	Tan				ergreers, rc.	AU No. 01 100.006 100.006
										WATER LEVEL TIME DATE	
	SALAPLE INTERVAL	BLOWS PER 6 IN.	USCS SYMBOL	MUNSELL	%GRAVEL GRAVEL	*SAND	*FWES	GRAPHIC	DEPTH	LITHOLOGIC DESCRIPTION (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts)	FID/FID READING OR COMMENT
9433	20	10	ML	-1045	0	20	80	ML	20	SCHOOLS ALL BROWN, TON LANDER	#
	1	עו						M		LOW CONFENERS SET W/ SAME CAND	18."
		14								- CM FINE ROUND	A Eccator
	-	17							1		
	215	15	<u> </u>	-		_					
	200		 	-							
									١,		
									2		
								}	1		
				<u> </u>				1			
								}	3		
			-		\vdash		_				
								İ	ļ		
								/	1 .		
								1	1 1		
									1		
0943	1		644	1045%		40-	(0)		1.5	WET. BASK YELLOWSH BLOOK LOOSE	45.44
ر 177	4	<i>10</i>	72.	976 7		7	٠,٢	3/1	\	SELTY SAM, SAMD VONNI PROMETO VONNY	Bian !
		1/						1		COALSE, SURPHANNETO SURPAND	LEWS
	V.	10							.		
		19							6		
	265	71							1		
									7		
									}	<u> </u>	
								سليا	1 78		
]		
					\vdash				1		
								4			
					 				9		
120									1		
7									1		
								<i> </i>	7		
No.	J	CL	.: 51	ANT	24						
2			/ - 1	SH							
ROJECT)									

SWMU No. 01 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. F. MAREO / R. YOU MAY **TOOELE ARMY DEPOT** GEOLOGIST. NORTH AREA DATE. of IL DATE **WATER LEVEL** TIME FIDIPIO READING LITHOLOGIC DESCRIPTION GRAPHIC DEPTH IN FEET (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 30 M L WILK 0 2 40 notify that browns law to do playted VEH FONE TO MEDING, SUBANKLING, RECO 3 35 111 ML 10424 0 250 15 MOSS PALE BROWN, IN TO NO PHISTERY, 1015 35 LOW STOPPHESS SELT W/ SHAR, SHAR VAN PERE TO PERE. CURROND LEG 4 7 • TOLECT NO. 2942.0120

SWMU No. Of JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. Boring No. -01 GEOLOGIST F. MOLETON / B. HOLDMAN TOOELE ARMY DEPOT **NORTH AREA** DATE . of <u>//</u> DATE WATER LEVEL TIME SAMPLE INTERVAL *GRAVEL GRAVEL MUNSELL GRAPHIC LOG LITHOLOGIC DESCRIPTION FID/FID READING BLOWS PER 6 IN. DEPTH IN FEET (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 40 0 20 80 MOST PARE BLOVP, NO TO LOW 1001 MLWES ON PLASTRAM, LOW STATINES, CURROWN TO ROWN 41.5 2 3 11 CL 0784 0 195 85 45 WET YELLOUBH KNOW LANTOMOGNE 1030 PLASTERS LOW TO MOTHER STATINGS, ME O CHE SAND VEN PAPE TO PANE BURROAND! TO ROWA 7 8 9 128 1/2 mast st par ROLECT ---

SWMU No.0 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. TOOELE ARMY DEPOT Page_ **NORTH AREA** DATE of <u>//</u> WATER LEVEL TIME DATE FIDIPID READING LITHOLOGIC DESCRIPTION GRAPHIC DEPTH IN FEET (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 50 66 NO SHAPLE TAKEN AT THIS ENTENAL As Above 55 mL 1018 0 20 80 CL. MOST. YELLOWSH BOW, LANTONO SAMPLE PLANDERY, LOW TO NO SOFFIES w/ SA-A CAM VEN FINE SULPONATO LOND CHURNE SOME PUTALENDE LAND SAWY CLAYS ON THE SECTION ROJECT NO. 2942.0120 Me watt

	GEO!	LOGI		L MONT B HOL 7/			-				ENGINEERS, INC.	IU No. C
Ì											WATER LEVEL TIME DATE	
	SAMPLE	BLOWS PER 6 IN.	USCS	MUNSELL	*GRAVEL GRAVEL	%SAND	%FINES	GRAPHIC	901	OEPTH IN FEET	LITHOLOGIC DESCRIPTION (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts)	PID/PII READIN OR COMME
05	60		ML	w48 94	0	15	25	-	-	60	mass, terrens, per 70 PU	ON
	1	13		-							· - · · · · · · · · · · · · · · · · · ·	18"
	-	20			-			1			SAM Y OM PSWE TO PSIE SUPLOWD	Line
	*	10			 —	-				1		
ł	61.5	11									PLA DESCRIPTION AS FOR THE BOTTOM P	APT
										A		
[CL	25743	0	10	90	6	٠	2	MEST, LIGHT OFFE BLOW, MODERATE PHETE	77
ļ						<u> </u>	<u> </u>	1		_	LOW TO MODERATE STAFFIELS, LOTH CLAY	
ŀ				<u> </u>				ł			Stal vold fore sulform,	
-		-				_		}				
ł						_	-			3		
ľ								ہا	4			
									1			
ļ										4		
ŀ						<u> </u>	<u> </u>		l			
ŀ					-	-	-		l			
ŀ			AL	wyes	n	·E	4	M	Ĺ		SL. MOSS T BLOWN MODERATE PYRST FOR	STOR
Ē									<u></u>	63		O Kele
									(SA-OVEM PEATE, SUBROMATO ROWR	9
Ļ						<u> </u>						cyclo
ŀ						 		l		6		
ŀ						-		ł				
ŀ						_	-					
Ì								1		١.		·
										7		
]				
ļ				-								
ŀ										8		
ŀ												
ŀ						┢						_
Ī									/	٩	FAST HAMES (45%) AT CHEME.	
								7		9	HANGL FAMED COASE, SHEROND	
_, [64				
									-7			
						1	1	1 12	•	1	I I	
			أحسا			<u> </u>		L				
NO. 128	484	~	e 10 5	nt MB	·	-	<u>!</u>	<u> </u>				

.

		JAB	aes M	. MON	rgoi	MERY	r. cc	WBUL'	TING I	ENGINEERS, INC.	sw	MU No. 01
				BHO			-			•	Bor	ing Ho.
		LOGI E			2/	10/	92	<u> </u>		NORTH AREA	Pr	age B
		1			<u> </u>				<u> </u>	WATER LEVEL TIME DAT		OI 22
	¥	-	ٰ ا	=	.			ပ				FIOPID
	SAMPLE NTERVAL	BLOWS PER 6 IN	USCS	MUNSEL	%GRAVEL GRAVEL	KSAND	%FINES	APH	DEPT!	(USC name, color, size and angularity of each comp		READING
	SA	1			L	<u> </u>		SORAPHIC 100	70			COMMENT
1126	10	12	300	ions 14	35	20	10			THE PORT OF THE MOST TO WET.	WK	BAR
		22	GO!	-				مبی		VALUETE I BROWN, DENSE, PORM GRANT WATER SAFER FRANK LARRE		18 200
	11			2					,	sam pare to usem comple, endmadus bul.		
	71.5		CL	2007	0	3.	400	CL		MARSE TO VET, OLDE BROWN, MONTH		
									ŀ	CLAY, SAND YEM PONE, SURANHA	M	
		 							2			
		:										
									3			
									4			
								 	_			
145	75	15	4	DASA	70	20	O	GI.	75	LAND TO BE ALLENDED TO BE TO BED!	EUS.	Fran
		12						66		ponest books charge w/ insertance when tome, substituted to cultured. Sub-		RECORD
)						1	6	fert to comes of sababulan		
	3/6	18	CH	one #s	q	25	5	CH		MOST, BLOW TO INCL CLOW, MO TO HE		
	765							1		PURTETY LOW TO MADOMATE CENTER	-35	
									7			
į									8			
												
							_		9	Agai Add Classes to -1-		
8							\dashv			SERVE HE CLOSHED W/ THES PO CLAY AT = 19: HAN TO COME		
2942.0120										ONT OF HOLE + CLERK FOR		
A)				2 - 4								
2		ja 6 M	U, * # 1/2 *	A STATE	7517							
ROECT	Ä		,- •							•		
ğ												

SWMU No.0 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. B. HOWAVM/F. MOREON TOOELE ARMY DEPOT GEOLOGIST -7/30/90 **NORTH AREA** TIME DATE WATER LEVEL FIDIFID READING OR COMMENT GRAPHIC LOG LITHOLOGIC DESCRIPTION MUNSELL DEPTH IN FEET KFINES (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 80 1355 CH 101840 45 95 MOST VELLAXHBROW, MODERNE PLASTICATY, HERN STRENGTH . PAT LLAY SAN VOW FOR SURVEYORK. π 2 3 **Q**5 cff ESS. MIT VERLOUT I GLOS, MORNITE CN 1040 14 0 5 25 SAME 6 9

SWMU No.0/ JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST B. Halmany F. masses **TOOELE ARMY DEPOT** 7/30/92 NORTH AREA of Δ **WATER LEVEL** TIME DATE SAMPLE INTERVAL GRAPHIC LOG LOG DEPTH LITHOLOGIC DESCRIPTION FID/PID READING USCS **XFINES** (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 90 40 MOST YELLOUGH BLOW MOMENT PLATE DHEW PLASTEST, MODERNES SOFFWES 746 PAT CLAY SAM YOU POL TO MERMA Supportation CHUA CHANGE IN LATHOLOGY. SAMPLE DESCRIPTION RELOW. ML 2574 0 00 95 SLIPPST, LIGHT YPIONER BROWN, IN 15 PHOTOESTY, LOW STORTURES, SELT WISHARD SAND NOW FORE TO FEAS, AND WINK AT TOSARANGULAR Men 7 8 THE SLISSLEWTLY W/ : WTH

ROJECT NO. 2942.0120

	GEO DAT	JAA LOGI E	aes M	L MON B <i>Hou</i> 7/	TGO 0/W/ 74/	MERY MAY/ 12-	F.A	MBULT MODE	TING I		LE AI	RMY DEI H AREA	POT		Orus No Page of
										WATER LEVE	L	TIME		DATE	
	SAMPLE	BLOWS PER 6 IN.	USCS		*GRAVEL GRAVEL		%FINES	GRAPHIC LOG	O DEPTH O IN FEET	(USC name, co or plasticity, de	or, size i	CIC DESCRIP and angularity disture conter	of each	compone	REA COM
25	00	70		1092 4	50	20	10	60-	ט טון	SL. MORT	Story	TO AMPLE	Show	10-1	20
-	+	+	600		-		<u> </u>	600		MAD. DELSE GRAVEL W/ SE	70 8	PACE POOP	17 GM	45 110	10"
ŀ	1	150	 	_		 			١.	Mortful + MR			<u> </u>	-6,54	- 700
	-V -								1	SAW VOM			CAN	ide.	
1	01.5							L							
-		ļ			<u> </u>			10.2	ł						
╌		 	-		-			אלים אלים	: 2						
 									}						
		<u> </u>													
									3						
-		1			ļ										
ŀ															
 -															-
									4		<u> </u>				
L					_										
-									5						
-												<u> </u>			
									6						
<u> </u>									•						
-						_	-								_
H											•				
-									7						_
<u> </u>									8						
-															
 -															
 									_						+
, H									9						
															1
ľ															
]												
	486	1	100,	- MODE	No.							· —			
		•	V [2	WEST	•										

						ONT				ING LOG NSULTING ENGINEERS,	INC.	magata. pp1 magata. 955-p1-dd
		Feet i	N.S	oil Bort	igs .		ر ان	N- e4	DA DA DA DA	E 7/29/92	/ 8-Had organ El consers H	v.
	بمناه	飞		34-4	-05	7			TIM	والمراجع وبروان والمواري والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع		DATE STARTED #-31-12 DATE FINISHED 7-21-92
2:30		BLOWS PER 6 IN		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AGRAVEL GRAVEL	· ·	—	ı	OEPTI O	LITHOLOGIC	N	PROPID READING OR COMMENT
	0-1			9919				No.	1 2	day, hight alore has plastically, law sto sich for our same seb-angular to sa	na, low Genes, san - van Ain b-mark	
									3			
- 3 524	sis	10 10	pe	Lory	0	19	1	Va kal	5	day inst dies be		0.0
		11							7		Post, sale	18 th Latered
8									8			
MOJECT NO. 2942 6129				1/2	~!*	6						

SWMU No. (JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. Borns No. 00 7 TOOELE ARMY DEPOT **NORTH AREA** of ${\mathbb Z}$ TIME WATER LEVEL DATE FIDIFID READING OR COMMENT SAMPLE INTERVAL MUNSELL GRAPHIC KGRAVEL GRAVEL LITHOLOGIC DESCRIPTION BLOWS PER 6 IN USCS SYMBOL DEPTH IN FEET XFINES (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 10 12:50 Singlety most light yellough bound, 10-45 10 ML 2.5790 0 20 <u>00</u> 18400 plastic ity, law stifferess. Sitt w/ sent. Show - very fact , sub-now !. 11 2 3 ML 15 Shatty must, light without brand, low ML 2.5 % 0 5 65 15-16-11 1500 00 TRASTICATE and Stiffered, SILT W/ SAND. 13 SAND - VETY face, patrangular to sub-7 9 ROJECT NO. 2942.0120 w/ swith

SWMU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST Z. Hadaman / F. March TOOELE ARMY DEPOT NORTH AREA of LL TIME DATE WATER LEVEL FIDIFID READING OR COMMENT GRAPHIC LITHOLOGIC DESCRIPTION DEPTH IN FEET USCS (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 0 0 4042 shightly must, / 19th alive brown, /ow 1720 20-21-5 9 0.0 betilines, SILT W/ SAND 15 SAND - FINE, SAB-ALLE 1 16 2 3 4 13: 95 25-26 12 2514 0 0.0 MV 25 and students. SIH w/ state IEMPE 13 - V. EME I SAR-READ 12 6 7 8 9 POJECT NO. 2842.0120 - U/= ~ H

SWMU No. (JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. Boring No. GEOLOGIST B. Holdandy / F. Manda TOOELE ARMY DEPOT Page . 7/29/92 **NORTH AREA** oi // WATER LEVEL TIME DATE FID/PID READING OR COMMENT SAMPLE INTERVAL GRAPHIC LOG LITHOLOGIC DESCRIPTION MUNSELL DEPTH IN FEET (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 30 13: 40 ML051 % light bounds gray, som to 0.0 30-34 10 18 " re undarde plasticity. Low stiffnes, Sub- and to sub-marker ML 2 3 35 AA. 13:50 35-9-5 11 10 CL HOLES O D 6 must, light slive brand, maderate 17 0.0 18" rec. a. districts, and ende stilleress 7 5. Eslightly w/ = with # = gradetional

SWMU N JAMES M. MONTGOMERY. CONSULTING ENGINEERS, INC. GEOLOGIST Z. Haldaran / F. Marchan TOOELE ARMY DEPOT DATE _ 1/29/92 **NORTH AREA** of ____ WATER LEVEL TIME DATE POPID READING LITHOLOGIC DESCRIPTION GRAPHIC BLOWS PER 6 IN. (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 40 40-445 44. 14.30 ... 24 ML WE 4 0 20180 signify must to most vellanish bound Sub-Rond 31 SAME VERY PARE 2 proved of exclore. Gm 9Hreu EN 1012 4 30 30 30 45 year shahtly most, dark veclounsh 50 to rower, I am Diasticities as to law stillass, sitty gravel w/ sand SAND - FINE to DOWN. haman- Sime to coarse, sub-angular to i <u>6-600</u> 7 8 ROJECT NO. 2942.0120 AA = Is Aque to a quadrational

w/=~*

SWMU No. / JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. TOOELE ARMY DEPOT Page __ NORTH AREA of ____ TIME WATER LEVEL DATE GRAPHIC MUNSELL LITHOLOGIC DESCRIPTION FIDFID READING DEPTH IN FEET (USC name, color, size and angularity of each component or plasticity, density, moieture content; additional facts) 50 5-95 50 CMINE 40 00 30 10-10"re G - fire to copper, sub-suguesa SAND - BIRT A NOW AL T SHE-LUND. 2 55 4.4. 7 SIHARSON A.A = 15 Hors w/s with

SWMU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST S. Hollens / F. MAKTON TOOELE ARMY DEPOT Page_ **NORTH AREA** of LL DATE WATER LEVEL TIME FID/PID READING SAMPLE INTERVAL LITHOLOGIC DESCRIPTION GRAPHIC (USC name, color, size and angularity of each component OR or plasticity, gensity, moisture content; additional facts) 5:00 60-45 50 0.0 1005/1950 GIHW/ SAND LONE, MAY 3" RUNCH 60 5'/20 IN SPT - MUST HAVE ZEEN DASHAR 1. Vellanth brown Claver acres law to moderate atthese GL Grand - five to come Tenendar to sub-round. Sano-five, sub-an 3 AA. 7 CAN INCH TO IS LEL LOW PLATTICITY & STOWN-EVELO WELL GAADED GRAVEL W/ SINT SA GRAVEL - FORE & COME 64. She-Anterior in she-Amoi. GM SOND - VORY BUE TO FINE, SUB-2942.0120 insula 10 sus-knot. # Graduig

DAT	E	7	129/	12	7					TOOELE NOR	TH ARE	A	Pi	رع و ا
										WATER LEVEL	TIME		DATE	
SAMPLE	BLOWS PER 6 IN.	USCS	MUNSELL	*GRAVEL	%SAND	%FINES	STAPING STAPING	_	2 DEPTH O IN FEET	LITHO (USC name, color, si or plasticity, density		arity of eaci		FID REA COM
							00	•						
							6.		1				•	
							16					<u> </u>		
							11		2					
	_]		_				·	
							}	İ	3					
]	l	3					
							11	Į						
							11		4					
	<u> </u>						11			A.A.				
							1		75					
							1							
							1		6					
							<u> </u>	'						
							6	50	7					
							}							
									8					
							1							
							1		9					
							1							
			As A			_								

SWMU Noo JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST B. Holdenen / F. Morato GTES No. TOOELE ARMY DEPOT NORTH AREA DATE of ZZ WATER LEVEL TIME DATE LITHOLOGIC DESCRIPTION FID/PID READING DEPTH IN FEET (USC name, color, size and angularity of each component OR COMMENT or plasticity, density, moisture content; additional facts) 80 5340 00 GM INYEVE BUT by, velloush brown, when plasticity, endar 94.00 SILTY GROVER W/ SAND. GRANGE- FINE TO GRANGE SUIT CARRIE. Sab-angular to sub-round. SAND - Very PER, SHB-RULD: 2 3 82 mars 7 9 ROJECT NO. 2942.0120 w/ = with
A. A. A. Atore

										TOOFI F APMY DEPOT	AU No. 6
	GEO! DATE	LOGI:	SΤ σ 7/2	. Hors 28/4	2	7/			<u> </u>	NORTH AREA	of <u>//</u>
ſ										WATER LEVEL TIME DATE	
,	SAMPLE INTERVAL	BLOWS PER 6 IN.	USCS SYMBOL	MUNSELL	%GRAVEL GRAVEL	%SAND	%FINES	GRAPHIC LOG	DEPTH N FEET	LITHOLOGIC DESCRIPTION (USC name, color, size and angularity of each component or plasticity, censity, moisture content; additional facts)	FID/PI READN OR COMME
E	70'	_	6M	INRY	894	K	4	6m	70	day yellowsh brown, low plasticity,	cyclar
ŀ										w/ etab. (Shark- FINE, SUB-AME)	<u> </u>
t										SAND - JEH PINE TO PINE, SUR- AND	LAL
F									'	TO SUB-RONAD.	
ŀ											
ŀ								İ			
									2		
ŀ					-						
H									_		
									3		
L											
H								1			
H									4		
ŀ									75	4.	
F										A.4.	
L									6		
ŀ			• •								
ŀ									1		
t								1	7		
L									'		
F											
H											
t									8		
L											
H											
H									9		 -
r											
								1			
								V	<u> </u>		
	<u></u>		*	h = h / = wr	4 4	mi,					

٠.

SWMU No. / JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST B. Walener TOOELE ARMY DEPOT DATE _7/ 24 / **NORTH AREA** of 🔏 DATE WATER LEVEL TIME LITHOLOGIC DESCRIPTION FID/PID READING SAMPLE INTERVAL DEPTH IN FEET (USC name, cotor, size and angularity of each component OR COMMENT or plasticity, density, moisture content; additional facts) 100 DO-184 50 GAVERSASED 15 KS 7/0575/TY 9" rear 1720 6M DEN PARTOFINE, SUR-ANGREAR TD= coes 2 3 5 6 7 8 ROJECT NO. 2942.0120

	JAMES M. MOR									SOIL BORING LOG YTGOMERY, CONSULTING ENGINEERS, INC.							
	Feet N.S Feet E.W of Survey Ret										LOG SHEET NUMBER (Borerpage no.) GEOLOGIST & HOLD MATHY/ F. MOREYON DATE 7/28/92 DRILLING CONTRACTOR LAYNE DRILL RIG M 1000 PLACUSS DON HAMMEN BORING DIAMETER 10" TYPE OF SAMPLE 1/2" SFT						
										PLUS TIME DATI	D LEVEL	0900				DATE DATE	E STARTED 28/92 E FINISHED 29/92
ø	9 00	SAMPLE SS WTERVALS	PER 6 IN	30 20 70 7	GRAPHIC	DEPTH O IN FEET						1	FIDIFIO READING OR COMMENT				
									المهم	1 2	PUB SAN SAN	01 552 0, vom	NO . T. St	6.75 1.24 16.76	—	1	
										3	Sul	Retailer	water				
ø	115	4	1	ml	-vefz	0	35-	35	المام	5	St. M	SET, PA	rs er		vo Puk-		-0-
		4 65	12							6	Tes	77, 400	STATE	wess,	erny E, sul-	14	is way
										8							
	core.vico		61	8 SL	Sports.				1	9							
	PROJECT NO. CONC. VICE	TEAD-N PHASE I RFI															

• •

		.iai	422 N	L MON	rga	VER'	/. CC	WISTH.	TNG	ENGINEERS, INC.	U No. 01
	1										N8.1
	GEO	LOGI	ST_	$\frac{5}{7/36}$	1/9	7 V	7	7.1	Wast.	TOOELE ARMY DEPOT NORTH AREA	:
	DATI								<u> </u>	WORTH AREA	of <u>}</u>
			1							WATER LEVEL TIME DATE	
	₩ ₹	. Z	ہے ا	# _	¥		.	ş	- I	LITHOLOGIC DESCRIPTION	FID/PID READING
	SAMPLE	BLOWS PER 6 IN	USCS	MUNSEL	%GRAVEL GRAVEL	KSAND	*FINES	GPAPHIC LOG	DEPTH IN FEET	(USC name, color, size and angularity of each component	OR
	32	马品	2 8	38	7 8	*	¥	82			COMMENT
1930	10	10	AL	10124	0	25	75	Ì	10	SC. MOJS), LYWHT TELLWISH BROWN, LOW	9
		10	<u> </u>					ML	ł		87
	├- }-	15	 		 	 -			ł	والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع	EDWAY
	₩-	1	}		_	_			1	ment	
	11.5	15	 						l		
								24			
									. 2		
	<u> </u>	!	ļ						-		
	 	<u>:</u>	-		-			4	l	 	
	 	<u>-</u>	 		├─			سبنس	ł .		
		 	 					1	3		
								1	1		
								1	İ		
								 	4		
1											
0945	15		SA	10 ME 1/3	0	60	40	SM	15	SL. MAST, RAPP, LOW TONG PLASTERS	838M
		0						>/~\		NO CONFERS CATY SHAD. SAND	7 **
		21					_	1		MEDELL SUBMINION TO SUBMOND	erant
	4								6		
	16.5	25					{				
	V 9 1 9										
									7		
								1			
						-			8		
							\dashv	1			
								}			
]]	9		
91											
8						_	_				·
2											
POLECT NO. 2942.0120	-							<i>Y</i>			
٤			: 5 C	FMN —J	7					·	1
5		~ /·			4						
8			·	HAM							
歪!											

	GEO DAT	LOGI		_	ole	/سم		Hou			TO	OEL		MY D	EPOT A			AU No. of FINO. of Tof 11
										W	ATER L			TIME		DATE		
	SAMPLE	BLOWS PER 6 W.	USCS	MUNSELL	*GRAVEL GRAVEL	%SAND	%FINES	GRAPHIC	DEPTH W FEET			e, color,	size a	nd angul	RIPTION arity of each ntent; addit			FIDIPID READING OR COMMENT
100	70	12	51	אישונו	0	45	30%	SM	20	136					WNXH			OM.
		11								70	H-10	(34.51)			STATES (15	RFLORI
	1	10							1	50	BANG	FULM	٧				\dashv	
	213	 /)																
		<u> </u>	-	<u>!</u>					2	¥ ├ ─	-							
	ļ	1						- 4/-	•	-							$-\downarrow$	
								1	3	`		<u>-</u>						
	-	 	-	<u> </u>						-								
									4									
		-															-1	
	 	 	-		-			1		.						<u>-</u> -		
i-K	25	g	ML	COTP 5	0	7%	3	mL	2.5	26					PLAT		~	0
	-	12	-		<u> </u>			1				ss. Si Sabi			same	VERY		ls" Lemos
	16	13									7-5	3467						<u> </u>
•		12							6	`			-					
	265									-								
									7									
									'									
					 					-			·····					
									8		*							
	-	 								-								
																		
									9									
120					-					-								<u> </u>
													·-					
								V	<u> </u>									
2		5		SLFOO														
POJECT NO.	â)		bran		· 87×	77											

.

SWMU No.01 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. GEOLOGIST F. NOREN / R. HOLDINAM TOOELE ARMY DEPOT **NORTH AREA** DATE of 1/ 1 WATER LEVEL TIME DATE FIDIPID READING LITHOLOGIC DESCRIPTION DEPTH IN FEET (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 30 PIN ore SL MASST YELLOWEH BROWN LOW 12" ety ion stoppaces, shall cont VERY PONE TO PONE SURE 1 2 3 35 ML WARY OF T 1027 SL MOST BROWN, LOW PLANSPORTS, LOW SEPPHETS, SAMY CRT. SAM VEM FENE, SUBMUMENT 6 7 8 9 ROLECT NO. 2942.0120 SL = SLEWING

Į.										1	WMU No. 0/
		JAN	ies M	, MON	TGON	(ER	r, co	NSUL1	TING I	ergineers. NC. L	lorente No. 040
	GEO	OGI	ST_	F. mo	re	/ىم	6	HOLD	AM	TOOELE ARMY DEPOT	
	DATE	_		7/2	7/99	<u> </u>				TOOELE ARMY DEPOT NORTH AREA	Pageof
										WATER LEVEL TIME DATE	
	ພ⋠│	. 2	ر	# _			_	2	- 5	LITHOLOGIC DESCRIPTION	M READING
	SAMPLE INTERVAL	BLOWS PER 6 IN.	USCS SYMBOL	MUNSELL	%GRAVEL GRAVEL	AND	%FINES	GRAPHIC LOG	DEPTH IN FEET	(USC name, color, size and angularity of each compone	~~
	3 2	3 2	SY 8	38	3 2	3	*	₩ 3			COMMENT
1036	40		N	w1245	0	مړ	80	ML	40	SL. MAPS? PILE BARRY, CON THE PROPERTY INC.	7
-	4	V						1		PURSUITY, LOW STOPPHORS SAT W/	18-
-	+	13	 							Strol. SAND, SUBROWD, SAR ANDULAN,	RECORD
F	4	-/2							1		
	415	12							1		
<u> </u>					_				1		
									2		
}									ļ		
-									3		
-											
、 t										BELON PSEMENT OF SMALL AMONT (LS	न्द्रो
									4	CANGE AT CYCLONE GAMES FOME TO	
-										COMES E CHE potentile SHE pound	
-									İ		
									.,_		
	45								45	NO PUBLIC COPPERSE IL LISTO SALE	Mr.
-	-1-1							ML	ļ	AS MOVE AT CYCLONE,	
H	-/-							1			
	V								6		
	46.5										
					$\vdash \vdash$						_}
-					\vdash				7		
-											
L				_	$\vdash \dashv$				8		
-					\vdash						
H											
									9		
9, L									-		
								1			
7 %	.000		e 1.	TH							
ROLECT NO. 22		SL	e 51	2000	7						
2			-								
& L											

	J	AMES I	L MON	TGO	MERY,	CO	HBUL'	TING I	ENGINEERS, INC.		· · · · · · · · · · · · · · · · · · ·		MU No.O	7
	GEO! O	CIST	FM	nec.	77~/	'L	Had	dest	TOOELE A	MY DEPOT			क्राक्षः,	
	GEOLO DATE -	GIS1 _	7/2	1/9	2_				NORTE	AREA		Pa	e <u> </u>	_
	j				Π			Ì	WATER LEVEL	TIME	DATE			╕
	. ¥ .	Z	1	# H			2	= 15		MC DESCRIPTION			PIDIPID	1
	SAMPLE INTERVAL BLOWS	PER 6 IN USCS BYMBOL	MUNSEL	SCORAVEL GRAVEL	KSAND	XFINES	GRAPHIC	DEPTH IN FEET	(USC name, color, size a or plasticity, density, ma				OR	
1057	501.		1016/		<u> </u>		ML		DRY TO ELMOST, Y	PLANECH RRA	40 10		-0	1
	1 1						7		PURSTANT IN T	PARAMITE STA	TNES		اسم ا	Ī
	1	7	 	-	\vdash				SAMPLER SHIP		Cort C		Astan	4
	V							1						1
	51.5	4	 	-										4
								2						1
		-		1				-		·				┥
														1
	:			ļ			}	3	GARANT, FAME TO C	MARKET PROPERTY	40.01		HARRY AT LYLO	╁
	J								SHEARING OR THE					1
	+	+		 			-	-						
							-	4						
·	<u> </u>		 	-										4
							1	53				耳		1
1 105	55 1/3		ory Alig	25	7,5		CL		SL. MAST, POLE &				1800	H
	1/2							l	LEAN LLAY WY SAN	1 SAN VET	1 /	*	LEWY	1
	V . 2		<u> </u>			-		6	SURPHUALIER TO	SUBROW				4
	2510													1
		+												\dashv
								7						1
		+				\dashv								┥
							4	8						コ
	<u> </u>	+-		-			"							ᅥ
														コ
		-		-	\vdash	_	7	9			<u> </u>			4
8														٦
2942.0120								ļ						
NO. 2		= S	LState	24				<u> </u>						
2			6000		~~	,								I
OECT		de.	-274											

GE DA	OL TE	JAN OGI	ST	F.M. /28/4	rgol <i>ol E</i> 12	MER'	, co	Hou	TING I	TOOELE ARMY DEPOT	MU No. 0 ME No. 00 ME
										WATER LEVEL TIME DATE	
SAMPLE	MIENAM	BLOWS PER 6 IN.	USCS	MUNSELL	*GRAVEL GRAVEL	%SAND	*FINES	GRAPHIC LOG	DEPTH IN FEET	LITHOLOGIC DESCRIPTION (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts)	FIDIFIC READIN OR COMME
6	_	12		10112 9	0	¥	45		60	DAY YELLOWAR BLOW, ON PLANSEST!	18.0
6		17						Jet L	1	LONS TOPPINGSS	180
	Ц	21		•					1	SAM VEH ANG SULROWNO	400
					ļ	ļ			1		
	\rightarrow	H	ER		-	-	-				
1-0/	4	1/			-	}	-		1		
	\dashv	H			-	 					
	┪					-			2		
									•		
									ł		
	_					<u> </u>			3		
	_				<u> </u>	<u> </u>	<u> </u>				
 	4				├—	 	\vdash				
	+				 	-	-		1		
	┪				 	 	\vdash		4		
	+				_				1		
	\exists										
								Ι,,	15	NO SAMPLE THEREN HT THIS DATIONAL	
								pg 2-		AS ABOVE AT CYCLONE	
	4					ļ		1			
	4				-	 			}		
	+			-		-		ł	6		 -
	┪				-	├	-				
\vdash	┪				 		_		1		
	7								_		1
	1							سا	7		Sould
	\Box							-77	7	GANNEL PINE TO COMEE SUBREMD	GAME
	\Box							l t		Greek 15 L.S.	ATZY
	4					-			8		ļ
	4							64.	1		
	+					-		6M			
 	+				 	-		5M.	CIT		
	\dashv					 		1	9		
	7				\vdash						
	7					_			1		1
	_										
4	90				,	4	راي.				
				L.4 + 6	س د	, (174	-10	~~			
4											

SWMU No. AL JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. Boriel N GEOLOGIST F. MORETON B. HOLOMY TOOELE ARMY DEPOT Page . **NORTH AREA** DATE . of L DATE WATER LEVEL TIME LITHOLOGIC DESCRIPTION FIDIPID READING SAMPLE INTERVAL GRAPHIC BLOWS PER 6 IN. *GRAVEL DEPTH N FEET USCS SYMBOL (USC name, color, size and angularity of each component COMMENT or plasticity, density, moisture content; additional facts) 70 7" سی VERY POOR RECOVERY FEW PERCES 10 8* Allos OF COMPLE HAVEL, NOT REPRESENTA-THE OF WITHOUT g-eec 745 60 00 4 60 30 105 6H DRY DARK YELDWISH Blow NO-MILE CONSOLATION WOLL HAVE HAVE M SPIT + SHOW. GAMVEL, FEWE TO CYCAMB CERLE SUR MIGULAR TO SUBROWN CHTONIC SAMO, VERY FAME TO VERY LOAKSE, SUBANHALAR 75 NO SAMPLE THERE AT THE PATENTS. CHTENES AT CYCLONE AS MEONE 60 67 6 7 8 9 ROJECT NO. 2942-0120 w/s wast

GE DA	JAI OLOGI TE	st_	L MON F.M.	TGOI Leve	MER'	R.	HOL!	TING I	Y TOOELE ARMY DEPOT	MU No. 0/
	T					1		·	WATER LEVEL TIME DATE	<u> </u>
SAMPLE	BLOWS PER 6 IN.	USCS	MUNSELL	KGRAVEL GRAVEL	%SAND	X.FINES	GRAPHIC LOG	DEPTH IN FEET		FIDIPID READING OR COMMENT
		•					6w-	80	MOSAMPLE THESE AT THE ATTENT	
							1,			
							1	1		
							1	- - -		
		سما	1075	10	20	10	60-	2	DPY, YELLOWEH BANK UNCORSOLANTED,	SAMPLE
		600					m	•	WELL-HAMES G-PANEL N/ SETT + SAM,	FROM
								3		CHELONE
					_				SUBROWN. SHOW PENETS NEWS CONSSE SUBANGULME.	
							1			
								4		
							1			
								₹5	HO SAMPLE TAKEN AT THES	
							1		AS HERVE, CHITCHES AT CYCLONE	
								6	AS MESTS.	
							1			
								7		
							1			
								8		
							1	۰		
	-									
							1/			
		الم		<u> </u>		<u> </u>	<u></u>	<u> </u>	<u> </u>	

POLECT NO. 23 120

SWMU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. Borie N F. NALETW / B. HOLGAMY TOOELE ARMY DEPOT **GEOLOGIST** Page ____ NORTH AREA DATE _ of ______ WATER LEVEL TIME DATE LITHOLOGIC DESCRIPTION FIDIPID READING *GRAVE GRAVEL GRAPHIC BLOWS PER 6 IN. MUNSELI DEPTH IN FEET USCS (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 90 ٢صر 40 601 GRANGE CHANGE ON LETHOLDEY PROM 90-100' WETH CANTER PHE PORCENTHUS OF FAMES INCREMENT. THERE BY INTEREMENT OF 915 GAMELS + FONES. 2 3 700/92 95 L& 107874 50 15 35 DY YALMEN BLOW DENSE, SATY 7/29/92 CLAYEY GAME WISHER GRAVER FINE TO COMICE, SUBHAND PIPMEN 0920 SHIP VEM FARE TO BAVE SURROUND FANEZ-LW TO MED ENLANG PLASTA 96.5 LOW TO MODERATE SEFFWETS 7 POJECT NO. 2942.0120 -t- Thenson some

SWMU No.0 / JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. Borne No. DATE 7/29/92 TOOELE ARMY DEPOT Page _// **NORTH AREA** DATE of _ TIME WATER LEVEL DATE FID/PID READING OR COMMENT SAMPLE LITHOLOGIC DESCRIPTION MINISELL *GRAVEL GRAVEL GRAPHIC LOG BLOWS PER 6 IN. DEPTH IN FEET USCS **%SAND** %FINES (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 100 6940 Joer 100 CL 1048 0 SC. MOST, LSWIT YELDSH BROW! CL MODERATE PLASTICITY. MODERATE STATUTES IS ! LOAN CLAN W/ SANG. 30 TO FSIE, SUE HUBULAL TO SUE ROUND ī 1 35 1045 THE 10" DREHOLE GOES TO 100! THE ròî. 18" SPLAT SPOW WAS DROVEN MITTERN ı 1015 1:2 ï Prom 100 -1065 ! 3 5 Ī ı 6 1 i Ī 7 Ī 8 1 9 ! 2 SLE SLEDWILY ROJECT NO. WIE WITH

SOIL BORING LOG JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. **LOCATION of Soil Borings** 01 <u>10</u> Feet N.S. 7/22/92 DATE___ Feet E.W. LAYNE DRILLING CONTRACTOR of Survey Ret. PERCUSSION HAMMER DRILL RIG # / 1000 10 **SORING DIAMETER.** 2.5" SPT TYPE OF SAMPLE_ DATE STARTED FLUID LEVEL 722.92 TIME DATE DATE FINISHED HOLE DEPTH | 17.22.92 GRAPHIC LOG DEPTII IN FEET FIDFID LITHOLOGIC READING DESCRIPTION OR COMMENT 0 6M FINE TO COMPLE GAMES, WELL ROUNDED WOTH SHOWS HO 2 3 5 6 W IONE4 100 REFUSAL O. ORY, - FONT BROWNS H GARY. DENSE TOVEY DENSE, WELL AFTER I' GRADED GAME, PANE TO CORPLE SHE ANDRUME TO SHE-ROWN 8 9

PROJECT NO. 2942.0120

TEAD-N PHASE I REI

1146

SWMU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. Boring No. GEOLOGIST F. MOREDA D. ORASA TOOELE ARMY DEPOT Page _ **NORTH AREA** DATE of #2 TIME WATER LEVEL DATE FIDIPID READING LITHOLOGIC DESCRIPTION GRAPHIC LOG DEPTH IN FEET (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 10 DRY, OLIVE BROWN. DENSE TO VERY 04 1213 DENSE POORLY CHANGE CHANGE W 21 STOTISHED GRAVEL, PENE, SUB. ANDULAR SAPO, FENOTO COMPSE, SHEANDHLAR TO SHEROUND . 12 13 14 15 15-165 26 ML 1008 16 0 15 35 1245 31 34 04 16 MOSST BROWN TO DARK BOOK NOW TO LOW 1064 MT 17 mfm 18 19 PROJECT NO. 2942,0120 # Fransition

SWMU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. TOOELE ARMY DEPOT DATE 7.22.92 NORTH AREA DATE . of AL TIME WATER LEVEL DATE FIDIPID READING GRAPHIC LITHOLOGIC DESCRIPTION DEPTH IN FEET (USC name, color, size and angularity of each component OR or plasticity, censity, moisture content; additional facts) 20 60 2578 37 197 45 1312 10-15/17 DRY OLDVE RROWN DENSE STITY GW-36 CHINEL ORMINE PONE, SHE MALHEM 6M CHANGES SMANG GRADES FROM GM TO GW. TO WANTE GRAMAR LOSS OF FONES. AT ABOUT 72 23 # 24 FM 25 1314 25.365 32 600 2579 46 35 45 MOSST O LIVE BROW, DENSE, Puckey GRADA GANOLUISAT + SAM. HANN A TOR 50 00-60 SUBPLUMENT, SAND, VERY PONE TO CORPEE, ANDULAR TO SUB ROOMS PaoR 26 EELOUP Z 10" SHARE GRADER PROM COMMENT TO COOKER STED CAMPS TO PAUL WAYS 27 AT AGTTON of SHAPLE. 28 29 2842.0120 ROLECT NO.

		ST_	MON MON 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	an/d			NSUL1	ING (RMY DEPOT	Ba	MU No.
-					-	<u> </u>	i	 	WATER LEVEL	TIME	DATE	OX <u>ZV</u>
SAMPLE INTERVAL	BLOWS PER 6 IN	USCS SYMBOI	MINISELL	%GRAVEL GRAVEL	%SAND	%FINES	GRAPHIC LOG	, DEPTH IN FEET		EC DESCRIPTION and angularity of ea	ch component	FID/PID READING OR COMMENT
20-24		153	IOTE	0		72:	دية	30	SI MOSST DAKE Y			Juga
 	1/6		<u>!</u>				-		RASTRATY ITAN			LEROUSY
-	32	-	<u>'</u> !			-			SHOW, SHOWS			1650
		61	soye 4	1/5	40	75	6M	31	W. MOST DACK	YER WARNER EL	was prist	LETTOLAN
	177									AND CHIVET		CHARD
	+		<u> </u>			 -			SUB ANDRUAR	FAME OF LON	rsc,	: 31
 	1-	-				-	1 1	12	TAD WASHING			
	<u> </u>											
	-	-	<u> </u>			-	1	33			·	<u></u>
 	┼─	-	<u>. </u>				11.					
							V					
							#	34				
 	ļ		\ 				1	•				
 	+-	-					11					
	\vdash						1			<u>`</u>	·	
35.16	0	60	INTER	46	A P	3	60	35	SI MASSE, DARK Y	PROJECT N BA	and and a	1957
	30	i							DENSE CLAMEY NO			REF-ch
	 									Chrymosty 20-7		A SC
 	+		<u></u>			_		36	MANUAL TO SUR	Road Paris		- A-DIG
	Ĺ									775		
	 	!				ļ		37				1
	+		<u> </u>			<u> </u>	l					
-	+					\vdash		•				
								38				
								"				
} ——							ļ					
-	+	 					1		<u></u>		 	1
	<u> </u>							39				
]					
<u> </u>	1	!				<u> </u>	·					
	! ,,,,	. Fran	istr éi	,								

SWMU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. 222 TOOELE ARMY DEPOT GEOLOGIST MONETON / DLAWN NORTH AREA 72292 DATE of KL TIME DATE WATER LEVEL PID/PID READING LITHOLOGIC DESCRIPTION DEPTH W FEET (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 40 6612574 45 25 HOD 10-45 20 60 DALL YERRALL BLOW DENTE 1477 efren CLAMPY GAMER W/SAM, CAMER, POM Zi S'UB Addressed, skud uppy powe to ZEU. CEMPS Full Method TO Sull Road GNES MOD PLATER, MOD STOPE 42 COBBLES FROM 4-6" COMENT UP EN THE CYCLENE 44 OCO 45 REFUR ov. with silk and so no GY: fine sobane to Sobreum er to sub-chine Sacres to con the subangue No plasticity 47 48 49 HOJECT NO. 2942.0120

		JAI	MES A	A. MON	TGO	MER	Y, CC	SNC	BUL.	TING	engineers, inc.	SWMU No.
	GEO			HOLES							TOOELE ARMY DEPOT	Sorang No.
		E			142			·			. NORTH AREA	Page _(e
		,	, 	ī	1		1	_				of <u>//</u>
		l]		1.						WATER LEVEL TIME DATE	
	9₹	g Z	ಠ	3	KGRAVEL GRAVEL	٥	92	5		بياج	LITHOLOGIC DESCRIPTION (USC name, color, size and angularity of each compone	FIDIPID READING
	SAMPLE	BLOWS PER 6 II	USCS	MUNSEL	XGRAVEL GRAVEL	KSAND	%FINES		ξg	DEPTH IN FEET	or plasticity, density, moisture content; additional facts)	~~~
ر ار ر	8 ₹			!		1]	5 2	50	Rest Mt 2" Coorse grave!	Comment
1448	50 -	160	1/20	14/12	35	3	20	600	-6C		Stightly Mest brown well graded grave!	0
•	1		<u> </u>	<u> </u>	↓	<u> </u>	<u> -</u> -		ł	ł	with and relay fine to Caurse scare!	
	₩-	50	-	<u> </u>	-	┼	 	┨	1	l	subangular - Subscinated, others fine to coats	
	1		-	<u> </u>	+	-	├	1	1	1	subsequents subsequented sand times stiff	
	51.5	-	├		+	╁	-	1 1	ĺ		Tem Oride & barners Colables present in	2
	5/.5	 	 	<u></u>	†		\dagger	1 1		Ì	Metrial from Callone 3-6" subonsulo	_
								1 1				
]		2		
]		1		
•]		1		
	}			<u> </u>	 	↓	<u> </u>	1 1		3		
	-	<u> </u>	 	 	┼	ļ	₩	↓ 				
				 	 	-	-	1 1			}	
			 	<u> </u>	 	-	_	1				_
			 		†	_	\vdash	1		4		
					1			1 1		l		
								1		ł	1 theles v change 255' quely ->	
1505	15								40	5-5	sightly maist wellowish tomen med.	0
		29	The same	104/1	0	5	85	me	~CL		stiff and shope silt to clay with	054
		37			 		_			į	sand. Whi subang to sub munded sa.	Movery
		45			-		 	4		İ		
				<u> </u>	-		_	1		6		
		50		<u>'</u>		_	_	1	l	1		
								1				_
						_		1 1		_		
]		7		
]				
					 			11		}		
					 			1 1		8		
							 	1		}		
							<u> </u>	1 /		1		
								11		ł		
								11		9		
2								1		l		
Ö								j				
										<u> </u>		
TOPECT NO. 2942:0120	301										1	
- Z			#	Tran	sbi	•						•
EC.												
5												

SWHU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. TOOELE ARMY DEPOT GEOLOGIST AMERICA PARKEL NORTH AREA 7-22-92 DATE _ of & WATER LEVEL DATE TIME SAMPLE INTERVAL LITHOLOGIC DESCRIPTION PID/PID READING GRAPHIC LOG BLOWS PER 6 IN. USCS SYMBOL DEPTH IN FEET (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 1520 60 Slightly maist vellowish brown. Stiff loyrs/ O Ø B" (ecare 26 1 40 2 3 65 1540 M2YM 18" tocover 21 7 8 9 PROJECT NO. 2942.0120

SWMU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. Bornet No. TOOELE ARMY DEPOT GEOLOGIST MILETA / OKAN Page 8 DATE __ 7. 22.42 **NORTH AREA** ol <u>//2</u> **WATER LEVEL** TIME DATE FID/PID READING GRAPHIC LOG LITHOLOGIC DESCRIPTION SAMPLE INTERVAL MUNSELL DEPTH IN FEET (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additiona! facts) 70 1550 70 æ 26° of The covery la. smrel in 6 CLOYR 94 50 25 25 CL. MOSET YELLOWERY BROWN, DENSE CLATEY GARNEL W/SAND GARNEL FONE TO 715 COMPSE ANGULAR TO SURROUND SAND PONE TO COMMISE SUB ANGULAR 3 1420 75 "CN 35 % 97 ES 6W ود Subangular to subrounded fi to coarse Acces Cty some and cobbles, will acaded, limestone 50 Oce m 6 76.5 7 8 9 PROJECT NO. 2942.0120

SWMU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. TOOELE ARMY DEPOT MOLETAN DAMA **NORTH AREA** de WATER LEVEL TIME DATE SAMPLE INTERVAL FID/FID READING GRAPHIC LITHOLOGIC DESCRIPTION MUNSELL DEPTH IN FEET USCS SYMBOL (USC name, color, size and angularity of each component OR or plasticity, density, moisture content; additional facts) 80 1630 60 41 95 20.5 Verover 50 81.5 MULH LIKE (6" OBBLES IN CYCLONE DISTUTY 2 PRASOL D 85" 3 1105 25 85 6w 1440 95 242 FORT TO CONSCE CAND, SUBALHILING TO Ŀω RIOS 6 7 8 LARIT LOLLIES IN MICLONE 9 PROJECT NO. 2942.0120

SWMU No. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. Boring No. TOOELE ARMY DEPOT Page 10 **NORTH AREA** 7 22 97 DATE. of W WATER LEVEL TIME DATE SAMPLE POPID READING LITHOLOGIC DESCRIPTION DEPTH IN FEET (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 90 A. A. - Limestone 1782 Ø 20.5' WHELV 1 2 3 į As Adoug 95 GU 6 1 7 PROJECT NO. 29-4.0720 Hight maist darkvellerish man With more Supangolor to Supravi 3 Ufi to coarse Subanqular to Subround 10.5

Stating No. 24	
States No.	١
States No.	ł
Stating No.	ł
-	í
B - 24 - 6	
T	J
0 1	

Feet N.S Feet E.W of Survey Ret 240° + 6 34° + 6 Lecasted in 9	is #1		lote	•	GE DA DR DR BO TYI		Overland Driven	ATE STARTED 6/27/42 ATE FINISHED
BAMPLE MITERVALS BLOWS PER 6 IN USCS SYMBCI	SCI OR SCHOOL SCHOOL	*SAND	*FINES	GRAPHIC	DEPTH	LITHOLO DESCRIP		FIDPID READING OR COMMENT
0-1' 10			35-	5m	2	Same as below to Della su most. Re Same From a coast Sub-colors, coasts to Sub-eart	F. 508 - AMMAR. 3	

TEAD-N PHASE I RFI

		J	AMES	M. N	ION				ling Log Disulting Engineers, Inc.	SWAU No. 26 Bering No. 313 - 26 - 67
	Feet I Feet E of Sur 33' 355 Lace	LS LW vey Re	[]	- 3 - 4		e lac	uafea.	GEODATE DATE	0930 6	~
SAMPLE NTERVALS	BLOWS PER 6 IN	USCS SYMBOL	MANNEELL	KGRAVEL GRAVEL	*SAND	*FINES	GRAPHIC LOG	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	FIBIPIO READING OR COMMENT
0-1 ¹	17	Sm	10123	15	40	\$\$-	50A 10: 5'	0 1 2 3 4 5	SAME AS BROWN LOOSE, SILTY SAND W/GAMEL, SAND FINE TO LOAGES, SAR ANGUAR TO SAR-ROWND, GRAVEL FIN TO COARSE, SAR-AMEMAR TO SAR ROWD	
		₩/ • \$4:	WITE SAMP	A sala		+			description from 1-34 due to 0-1 & 1 and 1	

	•	24	1
	之-	@]	
70go _			
0	¥	`	

LOC	ATIO	N of Sc	ii Borin	gs.				1		0
								LO	SHEET NUMBER (Bore/page no.)	
	.							GE	LOGIST 8. Hillman / E. Marylon	
	root i Faat i	LS			-				E_6/25/92	
	of Sur	vey Re	K		_			DRI	LLING CONTRACTOR Directions Dalling	
1	53°	4	5.5 M	4				DR	LL RIG CME 750	
1 2	150	b +	.s. *	ŧ				BO	RING DIAMETER 24"	
	ملدر	4 . m a	red #1	06	اعه ا	and a	(جمدر		E OF SAMPLE SPT SAMPLER	
"		,		•			·	_	LEVEL	ATE STARTED
Ī								TIME		6/23/92
								DATE		ATE FINISHED
1								HOL	DEPTH! 3'	6/25/92
E S	_			بر			2	I		
SAMPLE INTERVALS	PER & IN	USCS	MANSE IL	SCRAVEL	*SAND	XFINES	GRAPHIC	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	(EDIPID READING OR COMMENT
0-1'	<u> </u>			-		十	1	0	SAME AS BOWY	0
	14					T	1			
1-5'		ML	1016 2	20	20	75-	ML	1	Dry . Dock Gasered Basses Liber PLATTES	
	12						i		•	•
	10							2	Lew Street Sun STIPPINES , SANDY SI	
	9				-				W CANGE: SAME - FINE to medius	4
	-7				_		10:	3	sus-cours. Land - Fine + con	36,
					_	-	5'		Sub-form.	
				_				4		
				_	_	_	ļ .			
					<u> </u>			5		
					L.			e		
								6		جند المحادث المحادث المحادث المحادث المحادث المحادث المحادث المحادث المحادث المحادث المحادث المحادث المحادث ال
			•					_		
								7		
							j			
							•	8		
					_		1	9	<u> </u>	
					_					
1 8										
		.5 ~5	arvey	stak	 	<u> </u>	-		Littelgie downstei dame for and a	. 1-3' h-+

		J	AMES	M. A	ION				RING L		NEERS, IN	C.	SWMU No. 26 Storng No. 26 - 26 - 204
LOC	ATIO	N of S	ail Borin	gs	-		**,*			,			Page
	East l	46										e no.) F. Hereter	
	Foot 8	E.W			_			DA'	TE_L	123/12			
(of Sur	vey Ro	L									when Dol	<u>uag.</u>
			5.5. M					DR	LL RIG	CME	750		
!	>42	ocatio	مهم د	ر ا	e and to	1.1	-	10	KING DI SE AE e	AMETER-	SPT	•	*
	9000	45,	west o	f sco	~ ~	ا اسان	j.le .		EUFS	AMPLE.		-	
	4	ر • م	. 26-	3				P.UII	TEVEL				DATE STARTED
	27.	, .						TIME		12:00			6/23/92
li								DATE		6/23/92			DATE FINISHED
								HOL	DEPTH	3'		1	6/28/92
SAMPLE INTERVALS	BLOWS PER 6 IN	USCS SYMBOL	MUNSEIL	SCHAVEL GRAVEL	*SAND	*FINES	GRAPHIC	t			THOLOGIC BCRIPTION		FIDIPID READING OR COMMENT
0-1'	17				Г		1	0	Saur	As Below			0,00
	20						1						
1-3	12	ML	ine &	45	25	45		1	KL. 1941	IST, DARK	Sac/, L	AN PLATFILLT	0 000
	12						1	1				y sans; s	
	12]	2	Į.		FINE SH	-	
	10						10:	_ '					
							3'	3		<u> </u>			
						Π	1						
]	4				· · · · · · · · · · · · · · · · · · ·	
							1						
							1	5			•		
							1						
						 	1	6		······································			
							1	7	 				
						_		ł					
		-					1	8					
						<u> </u>	1						
						 		9					
<u></u>	!	hed = 6 5 h · 2 5 2 f · 2 5		.	4	62 1	i grantin	east	•	to 0-1 4		ed up or s wares	

SOIL BORING LOG JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.

roc	OITA	IN of Sa	oil Borin	ıgs				1 _		01
İ									SHEET NUMBER (Borerpage no.)	
	Feet i	NLS.							DLOGIST B. Holdson / E. Marster	
	Feet I	E.W.	t		_			DA	E6/23/92	
.		-							LLING CONTRACTOR overland Drille	2
	-		5.5.			<i>L</i> .	••	DR	LL RIG CME 750	
700	_		SC 400				General Co	BO	RING DIAMETER 2-4"	
	Loca	tes co	, good a Lear - h	as P	رعد باردور	k Pci	460as. I	M	E OF SAMPLE . ST	
İ			۶) . سنه					FLUX	LEVEL	DATE STARTED
	41.	· 44 ·	26-10	,				TIME	17:15	6/23/92
	,•	•••						DATE		DATE FINISHED
								HOU	DEPTH 3 PF	6/28/42
SAMPLE INTERVALS	BLOWS PER 6 IN	USCS SYMBOL	MANSEIL	KGRAVEL GRAVEL	%SAND	*FINES	GRAPHIC	l .	LITHOLOGIC DESCRIPTION .	FIDIPIO READING OR COMMENT
0-1	12							0	Same as account	Ogn
	16									
1-31	12	SM	1042 %	45	50	42.	2W	1	SL MATT, DARK GRAMITH BROWN, LOW	0
	13								PLATTICITY, LAW STIFFARTS, LASSE,	
	2.1							2	SILTY SAND: SAND - VEN FINE to MESON	n ond
	42								She-mana.	
							10 =	3		
								4		
					-					
					_	-		5		
				-				6		
				_						
								7		
		1						8		
								9		
								9		

\mathcal{U}						9	SOII	BOI	RING L	00			5WMU No. 2	6
		.1	AMES	M. I	MON						NEERS, IN	·C	Baring No.	
L							JME	11, 0	ONSUL	ING ENG	MEENS, IN	ic.	513-26-0	26
LOC	ATIO	N of S	oil Borin	108				7					Page	-
			J					ار	G CHEE	T MI MOE	D /Dom/oo	ge no.)	Q_1_	=
														
	Feet I	N.S									savey / F	· Madieni		
ł	Foot (E.W			_					6/23/9				
ļ	of Su	roy Re	K	····				DR	ILLING	CONTRAC	TOR_Exe	cland Dall	ing	
1	16	4° t	5.5	# (i)			DR	ILL RIG	CME	750			
ı		. 4	5.5.	# H	Į.			80	RING D	IMETER.	22"			
ł	1.4		in du	1 6	- 14			TY	PE OF S	AMPI E	SPT 34	MILER		
ł			•••											
								FLU	DLEVEL		1	1	DATE STARTED	
]								TIME		14:00	1		6/23/92	
								DATE 6/28/47					DATE FINISHED	
								HOL	DEPTH	5'			6/23/92	
<u>s</u>	1 _	i				1	10					<u> </u>		
SAMPLE NTERVALS	BLOWS PER 6 IN	USCS SYMBOL	MUNSELL	SGRAVEL GRAVEL	9	*FINES	GRAPH LOG	DEPTH N FEET	<u> </u>	LIT	HOLOGIC		(ESPPID READMO	
ME	O E	ű	38	35	KSAND	Ę	182	22	•	DE	SCRIPTION		OR COMMENT	
W 3	100	3 00	1 30	120	Ľ	×]	0						
0-1	14				L	<u> </u>]	"	Some	AS BOLLING	,			0
	20						 							
1-5"	25	WL	104R4	15:	20	65	ML	1	SL. M	IST, DAG	k Reening	Beaut, La		•
	24											SAMOY SIG	T	
	60						ł	2	,	•	-	FINE & FIN	1	
	25											oned Glav		
							10:	3			e cus-			
							3			<u></u>		<u> </u>		
								4						
													 	
					 			5					 	
								6						
											·			
				\sqcap				7					 	
					-								 	
								8					 	
	l							J			··			
	1	<u>i</u>												
	$\neg \neg$							9						
	_												 	
			44											
J		₩ = ~	5 loga+lz .o 	7				4		•	to from	1-3' 5am	* meterial	
		•	masy s	+ a.fm	•				0-1'	which was	ment my	14 Samples 9	role.	
Ä	-	y. 200	-											

		3
Same o	24	1
Denne M		7
58 - 24	ي - ر	
Page	[]	
_		•

FOC	CITA	N of S	oil Borin	lgs									ľ	~ <u>~ `</u>	_
1												age no.)			
	See !	Ne						GE	OLOGIS	ST_5.	tedans	/ F. Moret	<u></u>		,
	Foot !	E.W.			_			DA	TE6	123/92		·			
	of Su	Ney R	et		_			DR	ILLING	CONTRA	ACTOR	reviews Dallin	9		
ł	129	5° to	# 10	>				DR	ILL RIG	CM	E 750				
ł			Ø 13					BO	RING D	IAMETE	R 2.5"				_
l			s gred		ł.			TY	PE OF S	AMPLE	571				
l	1.6	ਜ ਼ਦਾ ''	7/1-	• • •	,,,			<u> </u>							
								 	LEVEL				DATE	STARTED	
[TIME		15:00			6/1	13/92	
•								DATI		6/23/9	<u>دا</u>	1	DATE	FINISHED	
								HOL	DEPTH	3'	1		6/1	13/92	
SAMPLE NTERVALS	, Z	_	=	4 .		8	GRAPHIC	三世			LITHOLOGIC			FIDER	
SAMPLE ITERVAL	BLOWS PER 6 IN	LISCS	MUNSELL	SCORAVEL	KSAND	KFINES	15 P	DEPTH IN FEET	ŀ		DESCRIPTION			READING	
9 2	22	35	38	75	*	3	0	ł					OII	COMMENT	
0-1	15						Ì	0	me	m 680	+			F4	
	5						I								
1-31	15	ML	INK 1/2	20	20	1	m	1	Dry,	Dark on	ush bowed	LAN PLASTICE	. ·		
	20						ł			•	•	SILT W/GAM	1	····	
	14							2			•	W. 548- CH	1		
	13								0			inc to come			
							70:	3		lour).			-		
									7						
				•				4							
															
		-						5				 		•	
								6							\neg
															_
	7							7							
	\dashv					\dashv							 		
		~			-	-		8					 		
	{														
			{					9							
													ļ		
									ــــــــــــــــــــــــــــــــــــــ						_
		_					_	_							

TEAD-N PHASE I RFI

					MON				RING L ONSUL1		NEERS, INC.		Being No. 52 - 74 - cay
	Feet Feet Of Sur	N.S E.W Ivey Re	oil Borir st fo S Jo Se- St D and (S. (-6-1		GE DA DR DR BO	OLOGIS TE ILLING (ILL RIG RING DI	ST B. Ha 124/12 CONTRAC CMF NAMETER		Martin Dall.	<u>α_</u>
		2_44°	ti 20	3				FLU	O LEVEL		T	1	DATE STARTED
	•	•						TIM		0825		Ī	6/24/92
								DATI		6/24/42	1		DATE FINISHED
<u> </u>						,			DEPTH	3'			6/24/92
SAMPLE INTERVALS	BLOWS PER & IN	USCS	MUNSELL	AGRAVEL GRAVEL	*SAND	X-FINES	GRAPHIC				HOLOGIC ICRIPTION		FIDIFID READING OR COMMENT
0-1'	50							0	SAME	to be out		. 	60
	31	•						1					
1-3'	45	GM	1045 24	6	20	20	6M	'	Dey	Vellande 1	Copyed, Dec	By SUTY	000
	47				_	_		2	Chine	w// 5 Am	i la ser	- Spice +	<u> </u>
· · ·	91				-	-				, -	mental a		7;
	7.						10:	3	SANO	MEDINA	+ Coases	- Cuboto	-6e. 0a
							3'						
								4					
								5					
						Щ		6					
											 		
								7					
								8					
				4	_			9					
			<u> </u>									İ	

2104	V No.	26
58	1 NO.	
Page		
	\sim	1

roc	ATIO	N of Sc	di Borin	gs						0/
								LO	SHEET NUMBER (Borerpage no.)	
	4 4							GE	OLOGIST B KHOLLOWEN / F.P. M.	etal
		LS LW			-			DAT	E 6/24/42	······································
			K					DRI	LLING CONTRACTOR Overland Del	11.014
İ	<i>n</i> .	· ·	5.5	. •	2			DRI	LL RIG CME 750	· · · · · · · · · · · · · · · · · · ·
	00				. 7			BO	RING DIAMETER	
			s.s.					TYF	E OF SAMPLE SPT SAMPLER	
	Loc	inte i	س وس	1 =	Z7					ATE STARTED
İ								TIME		6/24/52
								DATE		ATE FINISHED
ľ								HOL	DEPTH 1 3 /	6/24/92
S	1	l	1		_	1	10			0/ -4/
BAMPLE NTERVALS	PER 6 IN	_ \$	116	SCORAVEL GRAVEL	2	ES	GRAPHIC LOG	DEPTH N FEET	LITHOLOGIC	FIDIFID READING
ME ME	3 5	USCS	MANSELL		KSAND	KFINES	3	25	DESCRIPTION	OR COMMENT
	ļ	38	1 20			•		0	<u> </u>	
0-1			ļ				}	i	Sout to become	<u>_</u>
	12		<u> </u>	 	15	er.		1 1		
1-3	6	CH	10 YE 43	0	100	**	CH		Dry, PAUS Zamos, Ligh PLATIKITY, HE	
			<u> </u>		_		1	2	GALFLORE, which day strength, For	LAY:
	17			<u>L</u>	<u> </u>		•	-	SHOWS - V. FINE IN FINE, SHE-BOOM	<u> </u>
	21								To Roumb.	0,00
							TD:	3		
								١.		
				-				4		
							1	}		
		· · · · · · · · · · · · · · · · · · ·					1	5		
					—			•		
								6		
								7		
							1	1		
								8		
								l		
					L					
								9		
							1	9		

which was used up or sampling vati.

		J	AMES	M . (MON				RING I		INEERS, I	NC.	Bonng No. 58 - 26 - CI
LOC	ATIC	N of S	oil Borir	ìgs				7					Page
												sge no.)1	
	Feet i	N.S.										1 . more to	<u></u>
lł .	Feet i	E.W						1		10/24/9			
	of Su	rvey R	ot				_	1				verland Dri	Hing
			 			-	f	_ ·		CME			•
	4	/	. .	eit •			_				23"	A31 178	
	2	07° +	5.5.		- -	26	- L	LY	PE OF S	SAMPLE	311 3	AMPLER	·
}	3	37°	h s.s.	2	6-5			FW	D LEVEL			1	DATE STARTED
								TIM		10.25		1	6/24/92
1								DATI		6/24/92	.	1 1	DATE FINISHED
								HOU	DEPTH			1	6/4/92
SAMPLE ITERVALS	BLOWS PER 6 IN	USCS BYMBOL	MUNSELL	SGRAVEL GRAVEL	KSAND	%FINES	GRAPHIC	DEPTH		u	THOLOGIC		FID PID READING
2 2	M E	25	38	128	3	*	9	0 %		<i>-</i>	iounir i ioi	•	OR COMMENT
0-1'	16							0	SAM	T AS I	er *		0
	16												
1-31	معمل	SM	LOYEYS	30	30"	35-	SM	1	Dor	PMF 84	ma, Ne	PLASTICITY O	00
	70								į '			Very DONE.	
	92		<u> </u>				1	2				SAND - FIN	
	150							١ ـ					ROUND. OM
							70	3				ese, sub-an	
										5-Courb			
								4					
		-						5					
								6					
	_	$\neg \neg$						7					
								8					
													
								9					
				_				3					
<u></u>		w ,	/ 2 mg	hrad	5de	ke				- / ' usad I=\$!	in sample	ned nega - 12	Some

TEAD-N PHABE I RFI

		والتو								RING L				SWMU No. 25
						4ON	TGC)MER	IY, CC -	DNSULT	ING ENGI	INEERS, INC	2.	Se - 76 - 612
	LOC	ATIO	N of Sc	oil Borin	lgs	_			LO	G SHEE	TNUMBE	¤ (Romenag	je no.)	0
	1	Feet (N.S			<u>-</u>		!	GE	OLOGIS	ST & who	dames / E		
	F (Feet E of Sur	E.W Ney Ra	pt		<u>-</u>		!			CONTRAC		dend Dollie	<u> </u>
		25	54° +	h 26	-4			!	DRI	ILL RIG		WE 750		
		_		n 26 u gad		くて		1			SAMPLE			
	,	ر مو _{اند} ،	,	•				!	FLUS	D LEVEL	1			DATE STARTED
	/e/	× 20-	•		1	LH		!	TIME	_	42.4	1		6/24/92
	/ ~		2000	-				1		E DEPTH	6/24/92			DATE FINISHED
	ALS /	_∞ ≩			텧		8	¥ 9	三三		<u> </u>	THOLOGIC	<u> </u>	FIOFID
	SAMPLE NTERVALS	PER C IV	USCS	MANSELL	*GRAVEL	SAMO	*FWE8	GRAPHIC	DEPTH IN FEET			SCRIPTION		READING OR COMMENT
止	0-1'	L			上		上	<u> </u>	0	Sam	سامه وه	,*		Op
1	1-31	5		1040 3	<u> </u>	125	1.2	ML	1	41. 00				
ľ		7		107~ -	Ľ					3			eners, same	· · · ·
1		8			F'			4. 1	2	SILT!	54-b-		E & FIME, S	.5 -
十	-	25			-	H	H	102	3	Anen	<u>K</u>			
								3						
-	-			 	H	-	\vdash	1			•			
t	寸				世	H			5					
F					P			1 1	6					
F			 -		H	H	H			 				
		二						1 1	7					
F						H	H	1	8					
上	寸				世	世								
F		\square							9					
4	1	لـــــ			<u> </u>	<u> </u>					المناسب المناسبة		لــــــــــــــــــــــــــــــــــــــ	
"		··	56 .	sightly	¥					¥ A.	. I wead	644	- ماسط فاحدو	
			SL •	Signifi	7					* 0	-1 wood	-	mplong vigas.	Same manual

													56 26 O			
LOC	ATIO	N of Sc	oil Borin	gs				i					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
j											R (Bore/pag					
	Feet A	2 2										F. More	tow			
	-00K E	≥. W.								124/92						
•	x Sur	vey Re	L		_							dani D	-illing			
	91.	to s	5.5. 4	2				DR	LL RIG	CME	750					
	235	* * •	45. 1	£4				BO	RING D	IAMETER_	24"					
	اسعده	ted .	ar god	#4	14			TY	PE OF S	AMPLE	GT SA	MPLETL				
								B.LIII	LEVEL	1		1 1	DATE STARTED			
								DATE		13:05		!	6/14/92			
ł									DEPTH	6/24/92		! ! !	DATE FINISHED			
										3#		1	6/24/92			
BAMPLE VTERVALS	ຫ ≊	ਰ	=_	ي پر	ما	83	¥ 5	E E	Ì	LIT	HOLOGIC		FIDPID			
BAMPLE	BLOWS PER 6 IN	USCS SYMBOL	MANSELL	SCHAVEL GRAVEL	XSAND	KFINES	GRAPHIC LOG	DEPTH IN FEET	DESCRIPTION READING OR COMMENT							
9 2	2 2	36	28	38	×	¥	8	i					000			
0-1	15							0	34400	A SELW	· · · · · · · · · · · · · · · · · · ·		F0 94			
	-															
1-3'	6	SM	we to	45	55	5.4	SM	1	Dev 4	St. MOST	dean	CANKH BA				
	5											S, LINE,				
	5							2	•			is to Freed,				
					_			1								
					_		200	3	ans.	treem.tt.						
							3'		 							
						-		4								
				Ь.,	ļ	<u></u>										
								5								
								3								
													1			
								6								
								7								
	\dashv								 							
					-	\vdash		8	 				 			
						\vdash										
								9	<u> </u>							
													<u> </u>			
													1			

Su = Shquddy V. = √ary

TEAD-N PHASE I RFI

Lithologic description from 1-841 describe same as 0-144

when was need in Familians radio

	2011		RING LOG	SWMU No. 26	
, ,			TING LOG DNSULTING ENGINEERS, INC.	Banng No.	
		., I		58 24 614 Page 1	
LOCATION at Soil Borings				01_1_	
11		LOG SHEET NUMBER (Bore/page no.)			
Foot N.S.		DATE 6/24/92			
Feet E.W of Survey Ret		DRILLING CONTRACTOR OFFICE Destrict			
214° to 5.5. =4		DRILL RIG CME 750			
170° \$ 5.5. #3		BORING DIAMETER 2.5"			
located in good = 6		TYPE OF SAMPLE SPT SAMPLER			
,	ı	FLUE	DLEVEL	DATE STARTED	
ii.	ı	TIME		6/24/42	
	ł	DATE		DATE FINISHED	
	ı	HOLE	DEPTH 3 G		
<u>"" </u>	ပ			6/24/12	
BAMPLE NTERVAIS BLOWS PER 6 IN USCS SYMBOR USCS SYMBOR COLOR COLOR COLOR MANSELL COLOR MANSELL COLOR MANSELL COLOR MANSELL COLOR MANSELL COLOR MANSELL COLOR MANSELL COLOR MANSELL COLOR MANSELL COLOR MANSELL COLOR MANSELL COLOR MANSELL COLOR MANSELL COLOR MANSELL COLOR MANSELL COLOR MANSELL MAN	GRAPHIC LOG	DEPTH IN FEET	LITHOLOGIC	FIDIPID	
BLOWS BLOWS BLOWS BYNBO BYNBO GRAVEL GRAVEL ASAND	ਭ ~	ō ₹	DESCRIPTION	OR COMMENT	
0-1' 10		0	Same as record	F-D H-T	
15			A man of the feature	PDIK	
1-3' 94 ML WAR 34 20 25 55	ML	1	DEV. DAKE REAM, LAW to MADELLE		
13				•	
11		2	PLASTICITY, LOW STIFFLES, CAMPY SILT W/ GRAVEL ! CAMP - V. FINE		
11					
	102		to coasse, Admine to sur-Rund		
	3'		100000000000000000000000000000000000000	·	
		4		······································	
	ĺ	5			
	l	_			
	- [6			
	- [
	I	7			
	1				
	- 1	8			
	- 1				
		9			
as a ray state			9 8-1' used up in sampling wais		
dide garage sales			same as 1-4'		

JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.								1.	7				
LOCATION of Sail Borings Feet N.S.								LOG SHEET NUMBER (Bore/page no.) GEOLOGIST B. Holdsway / F. Marcten DATE 6/24/42					
of Survey Ret								DR	DRILLING CONTRACTOR Declared Delling				
140° to 5.5. stake #3								DR BO	DRILL RIG. CME 750 BORING DIAMETER 2.5"				
	249° fo 5.5. a take #4							TYI	TYPE OF SAMPLE STT				
ness of of 2022								FLUX	IND LEVEL I DATE STARTED				
									TE 6/24/92 DATE FINISHED				
								HOL	LE DEPTH 3' 6/24/92	ᅦ			
SAMPLE INTERVALS:	BLOWS PER 6 IN	USCS SYMBOL	MEMBELL	KORAVEL GNAVEL	WSAND	*FNES	GRAPHIC LOG	l .					
0-1								0	Figure of below Fib out	긔			
1-5'	14	SM	10YEZ	70	40	40	SM	1	 				
	7							2	low stillness, sulty sand of good;				
	11		·					~	send now free to Fire, sub-road	-4			
	38						10=	3	to sub-round.	ᅦ			
							3						
								•	` <u> </u>	4			
								5		1			
								6					
									<u> </u>	\dashv			
								7	'	1			
								8					
				\dashv						-			
								9					
								k -					
#		53.	< food	y			,	- 0·	1-1' used up in compling voti - conconstant ps 1-1!	4			

SOIL BORING LOG JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.							
LOCATION of Call Parings	1	Page					
LOCATION of Soil Borings	OI						
	LOG SHEET NUMBER (Bore/page no.) GEOLOGIST_BARO						
Feet N.S.	DATE 6/11/92						
Feet E.W of Survey Ret2&	DRILLING CONTRACTOR OVERLAND PRILLING						
Sample Location 42'N, 75'E							
	PORING DIAMETER 4"						
AN AI COURT OF ALLE	TYPE OF SAMPLE S' CONTENANS SHIPLES						
The second second							
	PLUID LEVEL	DATE STARTED					
ad Ad	TIME	6/n/92					
Mandown i Suppl Ad	DATE · 6/11/42	DATE FINISHED					
	HOLE DEPTH 51	6/11/92					
A E S S E E S S E E	E 10 1000	FIDEID					
SAMPLE NITERVALS BLOWS BLOWS PER 8 IN. USCS SYMBOL USC	LITHOLOGIC DESCRIPTION	READING					
		OR COMMENT					
0-7 CL 1842 42 200 10 5	lo vidal-gayobbo, moderate plate	NA/ Zone					
	1 to plastic, mad. stiff to still,	mallundian					
	1 pravelly loan cky / Fine -10						
	da a miller C d						
	2 Const mare Housey fine to come	 					
	Sand - 546 angalor, took 900						
	3 No rumy > 2'						
							
┠╼╌╂╼╂╼╌╂╼┼╼┤	4						
├─┼─┼─┼─┼							
┠╌╂╌╂╌┼╌┼┼┼┤	5	 					
┠┈╂╌╂┈╂┈╏							
	6						
							
	7						
	8						
	9						
br: broad med. = melantely							
= V: A.T. NA - Not amileble							
A (k: doch							
TEAD-N PHASE I RFI							

PROJECT NO. -- 42.0120

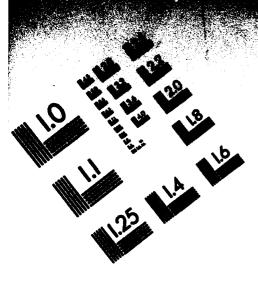
CARCT NO. 2942.0120

		Feet A Feet E of Sur	N of Sc I.S W vey Re	AMES I	gs		rgo	MER	BORING LOG IY, CONSULTING ENGINEERS, INC. LOG SHEET NUMBER (Bore/page no.) GEOLOGIST R. HOLDHWAY F. MORETON DATE 6/12/92 DRILLING CONTRACTOR OVER LAND ORDLENG BORING DIAMETER 0-2' = 2½" 3-5' = 2" TYPE OF SAMPLE SPT SMALLER FLUID LEVEL DATE STARTED							
	SAMPLE SAMPLE COLOR SAMPLE SAM								HOLE HOLE HOLE 1 1 2 3	DEPTH DE Y BROW SA-AD GRAVE DE Y BROW TO	VERY STIFFN FINE 7 SABA LIVE	TYELO	LAYESH CATE PLAS IT WETH IS ME ROW DE TO MED. WE TO MED. WE AND FEWE	DATE FINISHED 6/12/92 FIDIPID READING OR COMMENT 0 pp 725TY And. (OHASE MANY Phan 2'-3'		
					. 6											
		7														
									8							
0210									9							
Priozect No.	*	TE	AD-N F	HASE	PF											

LOCATION of Soil Borings]		OI					
ł	LOG SHEE	T NUMBER (Bore/page no.)	/					
1	GEOLOGIS	ST L. HOLDMUNY) F. Mar	ETON					
Feet N.S	DATE 6/11/92 DRILLING CONTRACTOR OVERLAND PREVIOLEM							
of Survey Ret								
		CME-750						
	BORING D	4 4 66						
325° TO STACE 28-1	TYPE OF	SAMPLE S' CONTENTOUS	Moreloft					
SW CORNER OF SAURED!	TIPE OF S	SAMPLE 2 SET / SET						
200 Marie as and	FLUID LEVEL		DATE STARTED					
147° TO STAKE CP4	TIME		6/11/92					
	DATE	111199	DATE FINISHED					
	HOLE DEPTH	6/11/92						
	 	4.51	6/11/12					
NTERVALS NTERVALS BLOWS BLOWS PER 8 IN USCS SYMBOL COLOR COLOR SASAND WFINES LOG LOG	DEPTH N FEET	LITHOLOGIC	FIDANO					
MANSELL COLON KSANDL COLON KSAND KSAND KSAND KSAND KSAND COLON KSAND KSAND LOG GRAPHE		DESCRIPTION	READING					
			OR COMMENT					
0-45 14-2 072 2-60 197 1-F	ODEV	VERY DARK GRAYISH	DRINE SAM					
		NN. NON PLASTZE, NON	4.5 ONLY					
<u> </u>	SA	of suffered contests,	.5' Recove					
	CLA	IPI SAND, SATT SHUD	LARGE CO.					
		P. PENE TO COARSE SAB-	PN SHE					
		WARTO SUBROUND	0 000					
	3	(d) (d) (d) (d) (d) (d) (d) (d) (d) (d)	+					
								
	4		<u> </u>					
17147]							
	5							
 - - - - - - - - - - - - - - - - - 	6		+					
								
	7							
	'							
	8							
	[
╼╼╂╼┼╼┼╼┼╾┼	9							
								

Feet N.S. Feet E.W. of Survey Ret. 5 + 3	LOG SHEET NUMBER (Bore/page no.) GEOLOGIST B. HOLOWAY F. MORETAN DATE 6/11/92 DRILLING CONTRACTOR OVERLAND MRQ CONT DRILL RIG CONTRACTOR OVERLAND MRQ CONT BORING DIAMETER TYPE OF SAMPLE CONTRACTOR DATE STARTED TIME 6/11/92 DATE FINISHED HOLE DEPTH 4.51						
SAMPLE NTERVALS PER 6 IN. PER 6 IN. SYMBOI. SYMBOI. SYMBOI. SYMBOI. SYMBOI. SYMBOI. SYMBOI. SAMPLE STRES COLOR STR	LITHOLOGIC DESCRIPTION AND ENATE PLASTE C. LOW TO MODERATE PLASTE C. LOW TO MODERATE STAFFNESS Crewelly Silt W/sand Gravel round to sub round is fine to energe send, sub round. to sub magalax 4 5 6 7 8	ONLY 2' RECOVERY D PAR					

AD-A282 574 TOOELE ARMY DEPORT-NORTH AREA SUSPECTED RELEASES SHOUS UOLUME 2 APPRENDICES A - J REVISION(U) MONTGOMERY WATSON WALNUT CREEK CA DEC 93 XA-USAEC UNCLASSIFIED DAAA15-90-D-0011 NL



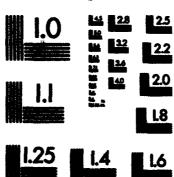


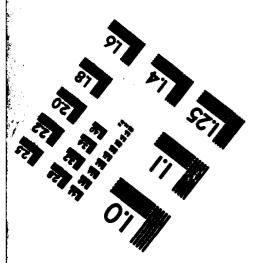
301/587-8202



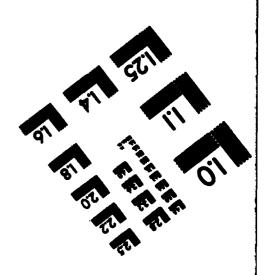
Centimeter







MANUFACTURED TO AIIM STANDARDS BY APPLIED IMAGE, INC.



ac. - or about

SOIL BORING LOG JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. SA 62 **LOCATION of Soil Borings** LOG SHEET NUMBER (Bore/page no.) GEOLOGIST R. HOLDHUMY Feet N.S. 6/12/92 DATE ____ Foot E.W. DRILLING CONTRACTOR_OVERLAND DRIELENS of Survey Ret. DRILL RIG CM6-79 BORING DIAMETER 0-2'=21/2" 3-5':212" 188° TO WAND SOUK OF SOUTH CENTER OF BLOWS TYPE OF SAMPLE SPT SAMPLER FLUID LEVEL DATE STARTED 209° TO STALE SW 29-3. TIME 6/12/ (TELEPHONE POLE SOUTH) DATE 6/12/92 DATE FINISHED END of PARKEN LOT HOLE DEPTH 44' 61,2192 SAMPLE INTERVALS GRAPHIC LOG DEPTH IN FEET FIDIFID LITHOLOGIC READWG DESCRIPTION OR COMMENT 0 1012/3/25/45/30 0-21/35M BRY DARK GRAYXIN CROW 0-1' THEN **Z**2 UD PLASTESTY NO STOFFNESS REFUSIT MOMPH SELTY SAMO WITH = 4"RELOVE NO SAMPLES braver, measum deuse. FOR ANTLYS SUB ANTOLINE TO SUB ROWN 2545 20 FINE TO VEM COMPSECRNEL 40 39 Sm 1014/5/25 403 MOST PALE BROWN, NO DROVE FRY 60 PLASTACEN, NO STAFFENESS 2.5' 704.5" SETY SAME WORTH CAMPEL, THEN REFUL 1' RETONOMY perce to very dense rul COMPSE SMB MANGULAR GRAVEL PANE TO COMPSE. SYB ANDUL MR TO SISB ROUND 8 9

PROJECT NO. 4- 4.0120

	SOIL BORING LOG JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.														
29	Feet I Feet E of Sur	N.S E.W vey Re	oil Borin	SOC 5	- 76	9-3		GEODA' DA' DA' BOO TYP FLUE TIME	COG SHEET NUMBER (Bore/page no.) GEOLOGIST & HOLD HAND / F. MAREON DATE 6/14/92 DRILLING CONTRACTOR OVER AND ORDERANGE DRILL RIG BORING DIAMETER 0-4'=1" 4-5'=1.8" TYPE OF SAMPLE SPT SAMPLES LUID LEVEL DATE STARTI BME 1/50 6/14/9 DATE FINISH OLE DEPTH 5' 6/14/9						
SAMPLE INTERVALS	BLOWS PER 6 IN.	USCS	MUNSEIL	SCHAVEL GRAVEL	%8AND	%FINES	GRAPHIC LOG	7 +		FIDIPIO READING OR COMMENT					
0-2	14	AL	OYE	35	705	60		0	JRY, USTY MAN GRANTH E	an wheren					
	18							١,	LOW STOFFINGS HAVEN						
	27							'	TO WARLE AND TO SUR A						
	44		<u> </u>				Щ	2	FORTO COMPLET, SHE AM						
34		SM	OYE'S	10.	40	*	1	_	shally most, sale base						
 -	44		 -	-		-	FI	3							
	44			-	_	-	AN		sand very hore - and ongs						
4-5	41						119	4	gport furt to course, sub [LS+ Otack grand)	- A					
-	34				\vdash		H								
								5							
								_							
								6							
								7							
								'							
								8							
					<u> </u>										
			 -		_			9							
			 	\vdash	_										
			s pu					0	TESTE : QUARTESTE						
	!		w	_	,										

PROJECT NO.

ul e west

AND AND AND INFO

SOIL BORING LOG 3-017-JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. **LOCATION of Soil Borings** LOG SHEET NUMBER (Bore/page no.) GEOLOGIST & HOUNTAY / F. MORETON Feet N.S. DATE_ Feet E.W. DRILLING CONTRACTOR OVERLAND DESLENT of Survey Ret. DRILL RIG. 0-4'=2" 4-5' = 1.875 **BORING DIAMETER** 298" TO STAKE 29-1 ON SPT SHAPLER TYPE OF SAMPLE SE COURSE OF RIBG. PLUID LEVEL DATE STARTED 220° 10 STALE 29-3 05 12:45 TIME 6/15/192 TITLEMENT POLE DATE DATE FINISHED HOLE DEPTH 51 DEPTH N FEET FIDFID LITHOLOGIC READING DESCRIPTION OR COMMENT 0 my 197 47 50 0-2 13 ML SLAMORT VERY MAK CANCEL BA <u>Qa</u> LOW PROSPECT (ON STOPPINGS SHOPEY SPET 1£ MAY ONNO, SAME USM PONE TO CONSEE, AND WALL TO sparet fore to confle sigh forms. ıf 2 2-4 108 F 15 0 Z/ 76 enb-round; gover, fine 38 4-5 13 15 5 6 8 9 p cwy

ROJECT NO. 1 .. 0120

MOLECT NO. 2942.0120

SWALL NO. 29 **SOIL BORING LOG** SE 029 013 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. **LOCATION of Soil Borings** 01 LOG SHEET NUMBER (Bore/page,no.) GEOLOGIST & HOLDMANY / F. MORRETOW Feet N.S. DATE_ Feet E.W. DRILLING CONTRACTOR OVERLAND ORELENL of Survey Ret. DRILL RIG CAE-750 BORING DIAMETER 0-2' = 2 1/2" 3-5'=2" SAMPLER TYPE OF SAMPLE_ 1650 TO WEND SOCK DATE STARTED FLUID LEVEL 105° 10 STAKE SW 29-3 6112/12 TIME DATE DATE FINISHED 6/12 6/12/92 HOLE DEPTH 5' SAMPLE INTERVALS DEPTH IN FEET GRAPHIC LOG FIDIPID LITHOLOGIC READING DESCRIPTION OR COMMENT 0 0-2 6YF 40 30 30 DRY PALE BROWN GM Oppos MON PLASTER, NON COHESING GRAVEL WITH SAND GRAVEL FOR PANE TO SUB ROUND TO DENSE. SAM MOD 3 3-5 13 PONE TO VERY COMPLE, 6M 22 SUB AND TO SUB RAD 5 6 7 8 9

2.0120

PROJECT NO.

	SOIL BORING LOG JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.																
LOC	ATIO	N of S	oil Borin	ngs],	Y, CONSULTING ENGINEERS, INC.								
	Feet ! of Su	E.W wey Ro	M		 - 	, .		GE DA' DR DR	LOG SHEET NUMBER (Bore/page no.) GEOLOGIST & HOLDWAY / F. MORETON DATE G/(2/92 DRILLING CONTRACTOR OVER LAND PRINTING DRILL RIG LMG-250 BORING DIAMETER 0'-2'-2'/2'' 3-5' 32"								
H	_		ws.d					M	PE OF S	AMPLE	SPF	AMILE	<u></u>				
~	76	.10	STIK					FLUI	DIEVEL				DATE STARTED				
			(1	T. O		uE,)	TIME					612/12				
								DATE		6/12			DATE FINISHED				
<u></u>	_	7		_	_	_	(45	POU	DEPTH	5'			6/12/92				
SAMPLE INTERVALS	BLOWS PER 6 IN	USCS	MANSELL	*GRAVEL	KSAND	*FWES	684P#6 106	DEPTH IN FEET			MOLOGIC SCRIPTION		FIDIFID READING OR COMMENT				
0-2	10	600	BRO	50	X	25		0	82.700	TTY PO	M. YR	WXC CO	D AAR				
	20											MEDERA					
	33						64	1				TY WAN					
	81		<u> </u>					2	4/5/	4~D.	VERY PS	N TO					
						<u> </u>		~	row	COARS	ES SUR	ANGELAK					
				L		_		3		···	-	•					
3-5	31	GM	IDKE 4	40	30	30	GM		SLITTE	ARY M	457 7	ALE BEOM.	0110				
	41			_	<u> </u>		5		NONC	ytesine,	Aled days	to dance					
	45			<u> </u>				7				SPY PON					
	22			<u> </u>	<u> </u>			5	70 V	ery co	HRSETS	BBANG	LIM				
				_				•									
				<u> </u>				6									
				 	<u> </u>	lacksquare											
				_	<u> </u>			7			····						
 																	
 								8									
				 	<u> </u>												
				 - -				9					 				
				 													

POLECT NO. 27-2:0120

SWMU No. _2 9 **SOIL BORING LOG** SE 029 0/7 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. **LOCATION of Soil Borings** LOG SHEET NUMBER (Bore/page no.) GEOLOGIST B, HOLDOWAY F. MORETON Feet N.S. DATE_ Feet E.W. DRILLING CONTRACTOR OVERLENG ORSIGNE of Survey Ret. DRILL RIG CME-750 BORING DIAMETER 0-2'=14" 76° 10 STARE 29-1 3-54529 SAMPLER SE converge BUG TYPE OF SAMPLE 193° TO STANE 29-3 FLUID LEVEL! **DATE STARTED** 6/12/92 AT TELEPHONE POLE TIME DATE **DATE FINISHED** 6/12/92 HOLE DEPTH | 6/12/92 GRAPHIC LOG LOG DEPTH IN FEET BLOWS PER 6 IN LITHOLOGIC READING DESCRIPTION OR COMMENT GM 25 14 40 25 40 0 SL. MESST. DARK BROWN, LOW PLASTERMY STITY GAMPEL W/SAND. LOW STAFFABSS. 18 PENT TO COAPLE 26 SHE ROMAN SAN CM 2-3' 7 CHB ANGHLAR TO SUB ROWNO 13 O ppm he above 3 14 3-5 IU 10 16 5 6 7 8 9 SL = Slightly

MOJECT NO. 2942.0120

PROJECT NO. 2--2.0120

SOIL BORING LOG SE 129 02 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. **LOCATION of Soil Borings** 01 / LOG SHEET NUMBER (Bore/page no.) GEOLOGIST & MULDHWAY / F. MORETON Feet N.S. DATE 6/14/ Feet E.W. DRILLING CONTRACTOR OVERLAND PRILLING of Survey Ret. DRILL RIG. BORING DIAMETER 0-4"-2" 45 '= 1.875" 12° TO STANT 29-2 AT SPT SAMPLER TYPE OF SAMPLE. SE count of bub 576 FLUID LEVEL ! DATE STARTED 36° TO WOME SOLK ON 6/14/92 : T:30 TIME 4L84 576. DATE : W14 DATE FINISHED HOLE DEPTH ! SAMPLE GRAPHIC LOG DEPTH IN FEET FID/FID LITHOLOGIC READING DESCRIPTION OR COMMENT 0 WAR 16: 30- 50 0-2 000 SI MOSST, DARK HAMEN BROWN, PLASTICE 1 100 STATEMESS SALLY CONT 4/ ML HAVEL SAND HAM BUTE TO COURSE S DE ANT TO sub hour, bluve for to const, subject to sub Rom 25 Francok \$135 55 10 2-4 21 9-50 45 37 proc to com 4-5 20 onsales to sale an gular 12 5 6 7 8 9 SLE SLEDMILY

ROJECT NO. 1 - 2.0120

WIE WETH

AND ANDRUM TEAD-N PHASE I RFI

TEAD-N PHASE I RET

M- u wir

SOIL BORING LOG JAMES M. MONTGOMERY. CONSULTING ENGINEERS, INC.

SWAU No. 29

SB 029 023

Page 1

						_		1	•	Page								
LOCATION of Soil Borings									LOG SHEET NI IMBER (Ross/page pg.)									
							!	GEOLOGIST B. HOLDAVAY F. MORETO~										
Ι,	Fact I	1. S.					-	GE	LOGIST OF THE PROPERTY	F. MURE D-								
} ;	Foot F	E.W			_			DAT	DATE 6/13/92									
			X]		DRILLING CONTRACTOR OVERLINA DRIEM									
								200	DIC CALC. Set									
	_		4	4.4			ļ	BO	ING DIAMETER 0-4'52	4-5' = 1.875								
77			SOLI			nr.	ļ	TYF	TYPE OF SAMPLE SPT SAMPLETL									
		_	udt s					}										
205	٠,	אר פר	445	3 (- T		}	FLUI	LEVEL	DATE STARTED								
		,	n ep #	₽7. L ud	- > -41). <u> </u>	.	TIME		6/13/92								
	~	7 78	7.574				•	DATE		DATE FINISHED								
							1	HOLE	DEPTH	6/13/92								
- C							To	 		1 0/13/72								
73	g Z	ಕ	<u>ي</u> ا	N N	٩	82	TA SO	EE	LITHOLOGIC	FIDFID								
SAMPLE TERVALS	BLOWS PER 6 IN	USCS SYMBOL	NA PASE IL	*GRAVEL	KSAND	KFINES	BRAPH LOG	DEPTH IN FEET	DESCRIPTION	READING OR COMMENT								
ø ₹	22		<u> </u>					1										
0-2	7	SM	roye 4	15	45	S		0	SL. MOST, YER LOW 33H BI	Raw.								
	8						SM		LOCKE TO POLSE, STITY									
	13			T			1	1	MANTE, PONT TO CONACE, ANGUAR									
	<u> </u>			╂─┤	 	 -	1	1										
- 41	33	 		├ ─'	┼—	╀	├	2	TO SUBLEMEND STOPMENT	1976 70 ·								
2-4	27			<u> </u>	<u> </u>	丄	1	-	COMPLE SUBTOMP.	·								
	57		<u> </u>						1									
[17	_	_]	3	•									
	109					厂	2W		1									
4-5"	5			lacksquare	 	+	1	4										
				╁┈╵	┼─	 -	1		 									
	46		<u> </u>	 	 	屵	 	5	144.									
				!			1											
					<u> </u>					<u> </u>								
								6										
							1											
\vdash	 			 	 	 	1	7										
 	 		 	╁┷	├—	╀	{	1										
				_	 	↓_	4	8										
						<u> </u>	1	~										
]	}										
							1	9										
				 	 	十	1	}										
	لسييا			لسلا	<u> </u>	ــــــــــــــــــــــــــــــــــــــ		<u> </u>										
-	. Si	. = S	ing hely	, L														

PROJECT NO. 4. ... 0120

Plais o gentail

DECT NO. 27-2-0129

						_	7-7-		ING L	- - -		_	Bones No.				
		J.	AMES	M. N	ION 	TGC	MER	17, CC) NSUL	TING ENG!	NEERS, IN	C.	S 02 9 02				
LOC	ATIO	N of Sc	oil Borin	igs				1				•	Page				
•								LO	3 SHEE	T NUMBE	R (Bore/pag	e,no.)					
	Cast I	N 6										F. more	70~				
	root i Foot i				<u>-</u>			DA'	LE	6/14/9	2	A . A . A . A					
			rt		_						TOR_OVE	riano di	us ient				
								DRI	LL RIG		A-181	- 1 11 .4	<u> </u>				
,	79	٠ ــــــــــــــــــــــــــــــــــــ	5774	سيدا	20	_>		BO	RING D	IMMETER.	-4-	A 40	5'= 1:875'				
_	3 (nn er				_	TY	PE OF S	SAMPLE_	. 301	SAMPLER					
		MT.	m er				••	PLUI	LEVEL				DATE STARTED				
42	. ,	י סי	ns-0	So	K	۰~	•	TIME		10:30			61 14/92				
		81 <i>86</i>	576	6		•	•	DATE	-	6/14			DATE FINISHED				
				_			_	HOLE	DEPTH	51			6/14/92				
TE NE	თ ≩	ನ	1,	بريو	٥	93	¥ 5	E E		L	THOLOGIC		FIDIPID				
SAMPLE	PER 6 IN	USCS	SOLOS	KORAVEL GRAVEL	KSAND	KFINES	LOG	DEPTH IN FEET		_	SCRIPTION	•	READING OR COMMENT				
				1		Ι.		0									
0-2'	, —	5/11	TOYE &		 23	170	200		MAR APPLE SELTY SAND W/ WAVE, LAND ES								
	18		 	┼	╁	┼	1	1									
	24	 	ļ	+-	╀	-	1		VAM Ford TO COMPASE, SUE AND TO SUE ROWN, GARNET								
0 11	64	 		1	-		 	2	2 Slightly mostly yellouth Looms, mod-								
2-4'	_	GM	IN ?	15	30	17							OFF				
}	29		<u> </u>	┼—	 	┼	cm	3				and, my					
	32	 		╀	[╀—	Cm			_	•	anyales to					
	34	<u> </u>	 	╀	<u> </u>	╄	1	4	240			e say ange					
4-5	42		ļ	╀	<u> </u>	<u> </u>	•		4 50	b-round	2 com	Granel is	000				
	44	<u> </u>	ļ	_	<u> </u>	Ŀ		5	L.5 4	Otrite.			<u> </u>				
		<u> </u>		<u> </u>	<u> </u>	<u> </u>				·							
	L			<u> </u>	<u> </u>			6									
				_		_		"									
		<u> </u>		_				7									
								'									
								_									
]	8									
								9									
											-						
	S	L T S	45794	RY	,		٤.	1,5	Lone	SA-F							
	. 4	Ws 1	THE PARTY	Hay	T 1	1	47	June	- Qu	MITE	76						
			AND.	, 	M												
) TĒ	AD-N	PHASE	IRF	7												

PROJECT NO. 1.0120

2.0120

PROJECT NO.

12.0120

SOIL BORING LOG 7 NO. JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. **LOCATION of Soil Borings** LOG SHEET NUMBER (Bore/page no.) GEOLOGIST B. HOLDANAY Feet N.S. DATE___6/17/42 Feet E.W. DRILLING CONTRACTOR OF FRENCH ORSELENG of Survey Ret. DRILL'RIG CANS 750 - 3'5 1" 4-61-1875 BORING DIAMETER_ 63° TO WEND SOCK ON SPT TYPE OF SAMPLE BLDG 576. FLUID LEVEL DATE STARTED STANKE 29-3 14:01 6/17/92 TIME AT TELOPHONE POLE DATE 8/17/12 DATE FINISHED HOLE DEPTH | 6/12/92 GRAPHIC LOG DEPTH IN FEET FILED LITHOLOGIC READING DESCRIPTION OR COMMENT 6m 101/23/195 20 SI. MOPET DACK RACEN, 40 TOURS LOSSE SALLY GAMER W/ SALD, colose, sub four, sand very B CM SHE ANDAL ML, SHE ROAND 00 orefe Bab 25 40 6 slighty must, grovet bonn, 3-5 + 60 EN WATER A 36 Sab-enember 41 5 6 7 8 2.0120 SL & SLADOTLY TEAD-N PHASE I RFI

SOIL BORING LOG JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. **LOCATION of Soil Borings** Cf LOG SHEET NUMBER (Bore/page no.) GEOLOGIST R. HOLDMINH / F. MORETON Feet N.S. 417192 DATE Feet E.W. DRILLING CONTRACTOR OVERLAND DRA Lond of Survey Ret. DRILL RIG CME 750 BORING DIAMETER 0-4'=2" 4-5'= 1.876 11/ TO SOME 19-1 OF SE SPT SHAPLER TYPE OF SAMPLE. COMMON OF BLOGS 76 FLUID LEVEL DATE STARTE! 10 SHALE 29-3 MY 12:25 17/92 TIME methor put DATE 6/17/72 DATE FINISHED HOLE DEPTH 6/17/92 SAMPLE INTERVALS FID/PID LITHOLOGIC READING DESCRIPTION OR COMMENT 0 10 20 20 20 20 0-2 SM SI MOST VERY PARK BROWN, LOSE OPPN 94 STOTY CAND W/ GLAND, SAY WOM BORTO Arbaian to enground butter WLC. SUB AMMUAL TO SUB Round 2-4 Gm lote 3 10 10 70 24 CM 57 68 415 4 04 3 mb angular to 5 mb re 48 6 7 8 WI WAN 1 M TEAD-N PHASE I RFI

2.0120

ROLECT NO.

SOIL BORING LOG JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. **LOCATION of Soil Borings** LOG SHEET NUMBER (Bore/page no.) GEOLOGIST L. HOLDANINY / FINOR ETO Feet N.S. DATE_ Feet E.W. DRILLING CONTRACTOR OVER WHILE MERISON of Survey Ret. 750 DRILL RIG CME _sQ4 51.875 4-5 **BORING DIAMETER.** 167° TO WOND SOCK OF TYPE OF SAMPLE. BLOK 576. FLUID LEVEL DATE STARTED 340 70 STAKE 28-1. TIME 1400 6/17/12 DATE DATE FINISHED HOLE DEPTH DEPTH IN FEET **FROM LITHOLOGIC** READNES DESCRIPTION OR COMME. ... 0 GM 1954 60 20 20 WET, JAKK MAKERY BROWN sary bewar wich 6M 6M DKK. 10 11 41 4-5 12 sab-cor-20 6 8 9 VI WAN ur ber LS = Line stone State - and the TEAD-N PHASE I RFI

0120

200.00	No. 42	
3:	10. 12 - 0	
Page		
1 7	01 1	

Feet N.S. Feet E.W. Of Survey Rel. 281° do 5.5. 4 240° do 6.5. 4 Fents' 5 Survey 1 3 Survey 1 4 Survey 1 5	<u>-</u>	۱ م	•	DRI DRI BOI TYP FLUI TIME DATE	LLING (LL RIG. RING DI PE OF S	CME AMETER- AMPLE OF:24 6/24/72	750 0-4~ 2 5FT	S" 9	DATE STARTED L/26/12 DATE FINISHED
BAMPLE BLOWS PER 6 IN UBCS PMBOL BAMBOL BAMBOL	CHANGE THE PROPERTY OF THE PRO	*FINES	GRAPHIC LOG	7.1		UT	HOLOGIC ICRIPTION		MEADING OR COMMENT
8	₹; 20	70		0 1 2 3	SI con Low To V. Por GRANG SL. A DENSI V UTLY	TO ME FORT I	SILT WY SILT WY SAME, SI CORRECT YELON SAME TO FELIC.	ESA, AUG USA BRO GRAVEL AUGUARA UE TO MA	Opposed on the Control of the Contro

And: Award

PROJECT NO. 2942-0120

SL 1619MY WYZWIN TEAD-H PHASE I RPI

2000

DECT 10. 292.0130

TEAD-N PHASE I RFI

PROJECT NO. 2942.0120

ROLECT NO. 2942.0120

2942.0120

PROJECT NO.

SOIL BORING LOG JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.

		46
	Ma	
58-	12	700
Page	1	
-	~	1

FID/FID

READING

Feet N.S. Feet E.W. of Survey			_
of Survey	Ret.	·	
351°	1.	42-4	survey state

130.5° to 42-2 separal state

LOCATION of Soil Borings

FLUID LEVI	E 9:00	DATE STARTED
TIME	9:00	6/27/42
DATE	6/27/92	DATE FINISHED
HOLE DEPT	TH 4'2"	6/37/92

LITHOLOGIC

DESCRIPTION

Septe			١					l			ĺ				L
GRAPHIC LOG	ML			GM					ėt						
%FINES	40		20		_										
%SAND	%		35												
SCRAVEL GRAVEL	25		45												
MUNSELL	me 1/2		love §												
USCS	WL		GM												
BLOWS PER 6 IN.	4	14	90	45	57	57	57 99	77	1						
SAMPLE INTERVALS	0-2'				2-4'										

3 2	Section 11010	OR COMMENT
0	day very lack ground brown: law	D gar
	Thesheily, wests low stiffness, sandy	
	31H // gravel; gravel - fine to	
1	to count.	O pa
	7	
3	day, bound, clease, sittly amost	
4	V/ sand; gravel - five to conce,	
	at 4') angular to sub-count; sand	•
5	very five to five, sub-angular	
6		
		· · · · · · · · · · · · · · · · · · ·
8		

=

4 2 and

TEAD-N PHASE I RFI

6

8

9

TD :	TOTAL	SETTH
w/ =	wmi	



TEAD-N PHASE I RFI

SOIL BOTHING LOG JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.

		J	ANNES I			I.GC	HER.	Y, CL	MOULI	mu erusi	MERNS, IV.).	58-42-010	
roc	ATIO	N of S	oil Borin	gs									Page	
								LO	3 SHEE	T NUMBE	R (Bore/page	no.)(_		
												/ F. More		
		l.S			_					127/97				
		.W			_							Ter 64 20	esself.	
•	of Sur	vey Re	K		_							racma de	MAN P	
			•				_	DRI	LL RIG.	CME	750		- **	
		315	10 %	~~	1 sh	4	2-5	BO	RING DI	AMETER.	0-4' = 3	K'. 4-5'	. 2 "	
		130°	to su	vey	546	2 4	2-4	TYF	E OF S	AMPLE	STT SAME	ret		
								PLUM	LEVEL				DATE STARTED	
								TIME		11:05			6/27/82	
								DATE		6/27/92			DATE FINISHED	
								HOLE	DEPTH	51			6/27/92	
្ឋី			i . "				2	I I						
₹\$	2 2	్టర్ల	1 2 K	NE NE	3	ES	GRAPHIC LOG	DEPTH IN FEET			HOLOGIC		PIDIFID READING	
MTERVALS	BLOWS PER 6 IN.	USCS		KORAVEL GRAVEL	SEAND	%FINES	8			DE	BCRIPTION		OR COMMENT	
- 2	2	CM	lord &	45	35	20		0	box	lak grape	h borners -	Jone Jone	0 20	
	15						<u>cm</u>	1	- 44	_	<u>ami'ac</u>			
	44]]		,		d - K frie		
							CM-							
. '	50 40	64.	sec %	40	30	30		2			· round to		Oppo	
Ť	55							GM- GC		madaa			whole dange	
	49									3				and; grand
	49										(ab-100-			
1-5'	19							4			ang afer		0 000	
	25							_	Angele					
							Ê	5	التي بالساب					
				H	-		501						}	
				\vdash		_		6						
										-				
								_						
								7						
								8				<u> </u>		
										<u>" </u>			1	
								9						
														
						<u> </u>		<u> </u>	I					
		V. 2 V/2	7											
	•	Y/ %	Minn											

PROJECT NO. 27-42.0129

OECT NO. 2942,0120

4/2 mth

AD-N PHASE I RFI

SOIL BORING LOG JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC.

		42
2	ing No.	-012-
1	**************************************	1
L	<u> </u>	4

LOC	ATIO	N of Sc	oil Borin	igs						Page OI
									SHEET NUMBER (Bore/page no.)	
	Feet I	N.S.						GE	LOGIST B-Holdenson F. March	3N
1	Foot (e.w			_				E 6/27/92	
1 4		vey Re			_				LING CONTRACTOR Deland Del	النفع
	12	10 40	4411	eu S	the	42	-2	DR	LAIG CAF 750	
	17	,	541V	• 7	r1.	49	_	BO	HING DIAMETER 8-4' : 24" 4-	.5 = 2"
	34	3° to	4000	~Y 51		7.		TY	E OF SAMPLE SPT GAMMEN.	
										DATE STARTED
								TIME		6/27/42
ł				•				DATE	6/27/92	DATE FINISHED
								HOLE	DEPTH 5'	6/27/92
SAMPLE (TERVALS	w ₹	*	=	1	۵	Ø	2 1 2	王山	LITHOLOGIC	FIDE
BAMPLE	BLOWS PER 6 P	USCS SYMBO	MANAGELL	SCHAVEL GRAVEL	SAMO	KFINES	EOG PER	DEPTH N FEET	DESCRIPTION	READING
9 2	3 2	3 8	38	32	7	3	٥		•	OR COMMENT
0-2	3	SM	25/6/2	ک- ه	70	25		0	dry, lack brown, loose getty send;	0
	7						SM	4	coad - very five, sub-round to	
	3								Sub-angular	
	4						•			
2-4'	3	SM	OR 4	0	35	15		2	dry, yellowish brown, loose, sitty	0
	و						SM	3	sand Sand very twe, sab-angle	
	b							3	to sab-round.	
	7									
4-51	12							4	k.h	
	19									
							Ê	5		
						-	5			
				\vdash		-		6		
					-					
				Ш				7		
								8		
								9		
-				\vdash						
I				Щ						

PROJECT NO. 22-2.0120

POLECT NO. 2942.0120

v. v very TD = total dapth

ta > 00 May Tead-N Phase I RFI

DECTION AND BRIDE

ge · slopedly

TEAD-N PHASE I RFI

SWMU No. 45 JAMES M. MONTGOMERY, CONSULTING ENGINEERS, INC. **Baring No.** DATE 6/25/42 TOOELE ARMY DEPOT Page __ **NORTH AREA** DATE. of _ TIME WATER LEVEL DATE SAMPLE INTERVAL PIDIPIO READING GRAPHIC LITHOLOGIC DESCRIPTION MUNSELL DEPTH IN FEET (USC name, color, size and angularity of each component or plasticity, density, moisture content; additional facts) 10 a 72/ 774 121 11 TILT GAM TO GAM ! LOW PLANT STORY LOW OPI 1-13' 12ATAL 1049 0 10 90 ML STREATH ISLT, SAME VEH PONT HAS RO/CAN WEL AND 1 2 13 WET. UT HAY TO BANY, BOW PERSONETY. ml love 10 10 10 10 13-15 4 NO STREATH, STIT. SAIN VAN PAUL WELL ADWARD ML 15 ML WIET 0 10 20 15-17 16 17 17-19 11 ML CL VIYER D , LEWY MANNEY CARY AND AND STREET CL 1. CEM CLAY 18 0 10 40 ML WAY WET, LT GARTO GARTE LOW PREDERTY ML 45 DA D maded the lower ser said VIN For Food 19-2! 3 ROJECT NO. 2942.0120 ML 2 itsisour A. A - 45 4500 ROI AR - FEDI Blown MI - MODERNAS

GEO DATE			6/26						TOOELE ARMY DEPOT NORTH AREA SWMU No. 4 Bering No.54 Page	2 44
SAMPLE INTERVAL		USCS SYMBOL	MINSELL	%GRAVEL GRAVEL	%SAND	%FINES	GRAPHIC	S DEPTH O WFEET	WATER LEVEL TIME DATE LITHOLOGIC DESCRIPTION (USC name, color, size and angularity of each component or plasticity, density, moisture content: additional facts) PROPERTY OF COMME	MT
21-23		584	tongs 5/	25	45	73%	N.R.	11	COMMENT OF THE POST OF THE PROPERTY OF THE PRO	4
	38 29 17	5/4	yeye 5	*	er.	20	SM	22	A/A 22"(OBASE SA-O / PEPE URINEL LAYER MORE BANK MARCHANNY PROES, SATT SAND OF OPPOSE, SAND FRANCE PART TO MARCH. SUB ANNUME, SANDER PART TO MARCH. SUB ROUND	
23-28	1 5 0	CL	7.514	0	5	25+	CL	23		Q.
	13						70 25'	25		
								6		
								8		
						·		9		
	4		ETH S AND			•	N.L. 74=		RECOVER	

PIOLECT NO. 294.0120

Appendix C



NGNTGONIUN WATSON

APPENDER C

DATA QUALITY EVALUATION - CHEMICAL ANALYSES AND DATA QUALITY

This section describes the types of analyses and quality control (QC) procedures used to ensure collection of reliable data during the Tooele Army Depot North Area (TEAD - N) Suspected Release RCRA Facility Investigation (RFI) Phase I Study. The following documents were utilized during evaluation of the QC data: TEAD - N Suspected Release RFI Phase I Study Data Collection Quality Assurance Plan (DCQAP) (JMM, 1992); U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) Quality Assurance Program, USATHAMA, 1990; User's Guide, The Installation Restoration Data Management Information System (IRDMIS), Volume II Data Dictionary, Potomac Research Institute (PRI), 1991; and the U.S. Environmental Protection Agency's (EPA) Laboratory Data Validation Functional Guidelines for Evaluating Organics and Inorganics Analyses, 1988.

C.1 Analytical Methods

Soil, sediment, surface water, and groundwater samples were collected from May to August 1992 as part of the TEAD - N Suspected Release RFI Phase I Study and analyzed for numerous organic and inorganic parameters in accordance with the DCQAP. Environmental Science and Engineering, Inc. (ESE) in Gainesville, Florida, performed all the analyses except the dioxin/furan analyses, which were done by Enseco, Inc. in Sacramento, California, and the explosive reactivity tests, which were done by Southwest Research Institute (SRI) in San Antonio, Texas. Classes of chemicals measured in project samples included volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), organochlorine pesticides (OCPs), herbicides, nitrearomatic compounds (explosives), dioxin/furans, metals, explosive reactivity tests (gap testing and internal ignition testing), and miscellaneous chemical parameters as listed in Table C-1.

The compounds analyzed in this phase of work were selected from the 40 CFR, Part 261, Appendix VIII hazardous waste constituents list as required by the TEAD Post Closure Permit. The selection of chemicals of potential concern was based on the probability that they were used at TEAD - N's solid waste management units (SWMUs) or were formed as a result of the activities on the base. A complete discussion of this topic may be found in Appendix E of the DCQAP.

TABLE C-1
REFERENCE METHODS FOR SOIL AND AQUIOUS SAMPLES
TRAD-N SUSPRICTED RELEASE BYT PRASE I STUDY

		DEATEANA			
Personator	Method Sell	Mothed	<u> </u>	Acres	Mothed Description
Tierity Pollutant Volatile	LM19	UNESO	8940	2340	COME
Organio Compounds					
Triarity Pullutant Baseffeutral/Acid Bassiveletile) Extractables	TAC18	UM18	8370	8270	GCAGS
organochierine Pestisides	LH10	UH13	8080	8080	GC/RCD
lerbisides	LH11	UH14	8150	8150	GC/ECD
otal Analyte List Motals					
luminum	J816	8810	6010	200.7	ICP
ationay	J816	85 10	6010	200.7	ICP
ropais	JD19	SD82	7000	206.2	GFAA
	JB16	2510	6010	200.7	ICP
ory žium odnosta	J816 J816	2510	0010	200.7	ICP
Alabam	JE16	2616 2610	60 10 60 10	200.7 200.7	ICP
hrunium, tutal	JE16	2510	6010	200.7	ICP ICP
shelt	J816	8670	6010	200.7)CP
type?	J816	8610	6010	200.7	ICP
	JB16	8610	0010	200.7	1CP
 Mad	3814	SD80	0010	250.2	ICRGFAA
aguesium	3816	8810	6010	200.7	ICP
hagnass	J216	8610	6610	200.7	ICP
areary	JB01	8801	7471	245.1	Cold Vapor A
lahel	J816	8810	6010	200.7	ICP
Anssirem	J816	8810	0010	200.7	ICP
leaturn .	JD15	SD21	7740	270.2	GFAA
iver .	J816	8D83	6010	200.7	ICP
dien	J\$16	8810	0010	200.7	ICP
ne Birum	JE16	SD00	6010	279.2	KINGFAA
andiun.	JB 16	8810	6010	200.7	ICP
	J814	#8 10	6010	200.7	ICP
plinto, Chiarido	12766	TT10	300.0	900.0	1C
lirite Flue Mitrute	X710	1732	Modified 363.2	363.2	Touhaisea
hasphates	10714	1727	Modified 365.1	365.1	Technicon
stal Cyunide	KY01	TF18	9010	395.3	Colorimetri
stel Petrologia Hydrosarbus (TPH-DI)	KA	NA	Entrant/ 438.1	418.1	R
tylesives	LW12	UWSE	NA.	NA	HPLC
Notice Persons	KA	KA	8200	0200	COME
CLP Personeters					
TCLP Extractions	MA	(048)	1511	(880)	
TCLP YOM	KA	Ubeso	MA	8846	COMM
TCLP BKAs	KA	UNCLO	MA	8270	GONES

TAMES

REFERENCE MELLEDOF FOR SOIL AND AQUEOUS SAMPLES TEAD-N SUSPECTED RELEASE RET PEASE I STUDY (CONTINUED)

		USATEAMA Method	WATHAMA Method		Method valuet	Mothed
	Parameter	Soll	Aqueous	Seil	Aqueeus	Description
TCLP Pag	remoters (continued)				· · · · · · · · · · · · · · · · · · ·	
	TCLP Posticides	NA	UH13	NA	8080	GC
	TCLP Harbisidee	NA	UH14	NA	8150	GC
	TCLP Metals (a)	NA	8810JB01	NA	200.7/245.1	ICP/Cold Vapor AA
N8	Analysis not scheduled	for this metrix				
NA	Not applicable					
CP	Industively coupled plan					
3C/MB	Ges chrometography/m	as spectroscopy				
GC/ECD	Gas chromatographyfele	etron capture detect	tion			

C Ion chromatagraphy

HPLC High pressure liquid chromatography

IR Infrared spectrometry

GPAA Graphite forages atomic absorption

AA Atomic charaction

TCLP Toxicity Characteristic Leaching Procedure

⁽a) Arsenic and selenium will be reported as uncertified analytes, based on ICP quantitation.

Complete analytical results for this phase of work may be found in Appendix K. As discussed in Section 4.0, some of the USATHAMA certified reporting limits (CRLs) were not comparable to the USEPA SW-846 practical quantitation limits (PQLs). To solve this problem, the laboratory maintained a separate database and collected any instrument responses for the environmental samples and calculated the concentrations.

C.1.2. Data Quality Assessment

A comparison of the TEAD - N Suspected Release RFI Phase I Study analytical results to project data quality objectives (DQOs) as defined in the DCQAP formed the basis for evaluating the quality of the analytical data. As described in the DCQAP, analytical data must be of a known and acceptable quality in order to be used to evaluate site contamination at TEAD - N. Determination of data quality is based en evaluation of the precision, accuracy, representativeness, comparability, and completeness (PARCC) characteristics of the data. Once these characteristics have been evaluated, a determination may be made as to whether the data are appropriate for the intended uses in Phase 2. With the exception of a limited number of analytical results, TEAD - N RFI Phase I analytical results met the project DQOs and are appropriate for use in the contamination assessment without qualification. These exceptions, as discussed in the following sections, are limited in nature and do not result in substantial qualification of data. QC results discussed in the following sections are included in tabular form at the end of this appendix and labeled as individual appendices prefaced with a "C-".

C.1.2.1. Precision. Precision, the reproducibility of measurements under a given set of conditions, was evaluated based on the analysis of three different types of QC samples: duplicate laboratory control samples (LCS), duplicate field samples, and matrix spike and matrix spike duplicate (MS/MSD) samples. These three types of QC samples are discussed below.

Laboratory Control Samples. The first type of QC sample, duplicate spiked LCS samples, is required as part of the USATHAMA analytical program for all methods and provide ongoing information on the performance of each analytical method in a standard matrix. The results of these samples are compiled on control charts and submitted to the USATHAMA chemistry branch for approval before sample results may be loaded into the IRDMIS database. USATHAMA has reviewed and approved all duplicate LCS results related to the TEAD - N Suspected Release RFI Phase I Study.

Duplicate Field Samples. The second type of QC sample, duplicate field samples, is included as part of the TEAD-N RFI Phase I in order to obtain additional information on sampling and analytical precision. The field duplicates provide an indication of the overall precision since they measure field and laboratory precision. Sixty-seven duplicate samples were collected for soils, one duplicate sample was collected for groundwater sampling, and two duplicate samples were collected for surface water. No samples were qualified based on the results of these duplicate samples since the USEPA has no guidelines for this QC parameter. However, the amount of heterogeneity of the matrices is shown by the number of times the duplicate samples collected and calculated exceeded the selected control limits (based on USEPA acceptance limits for field replicate QC samples). Appendices C-1 and C-2 detail the field duplicates collected and the relative percent differences (RPDs) that were calculated for both soil and water matrices (only samples with concentrations greater than the certified reporting limit [CRL] have RPDs calculated for them). Blank spaces in the tables indicate that concentrations from both samples were below the CRL and an RPD could not be calculated. Appendix C-3 summarizes the number of times the field RPD was calculated for soil and water analytes as well as the number of times the field RPD exceeded the control limits.

The VOC soil field duplicate RPDs did not exceed the control limit of 30 percent for any of the field duplicate samples. Similarly, the single VOC water field duplicate RPD did not exceed the control limit of 30 percent.

The SVOC soil field duplicate RPDs exceeded the control limit of 30 percent twice, once for phenanthrene and once for naphthalene, both in sample EP-01-018 at 6.5 feet. These results do not affect the data quality, but do indicate matrix heterogeneity. The water field duplicate samples had no SVOC analytes above the CRL, and therefore no RPDs were calculated

The organochlorine pesticide (OCP) soil field duplicate RPDs exceeded the control limit of 30 percent twice, once for (2,4-dichlorophenoxy)acetic acid (2,4-D) and once for dieldrin. 2,4-D had an RPD of 99 percent in sample SS-34-02 at 0.0 feet. Dieldrin had an RPD of 35 percent in sample SD-45-003 at 0.0 feet. These results do not affect the data quality, but do indicate matrix heterogeneity. The water field duplicate had no OCP analytes above the CRL, and therefore no RPD was calculated.

The explosives soil field duplicate RPDs exceeded the control limit of 30 percent 10 times as shown below:

Compound	Calculated RPD		Sample Identification
RDX	138%		EP-01-042 at 2.0 feet
	128%		EP-01-061 at 4.5 feet
	50%		EP-01-047 at 3.0 feet
•	40%		EP-01-051 at 2.5 feet
•	82%	ę	EP-01-059 at 0.0 feet
2,6-DNT	66%	•	EP-01-059 at 0.0 feet
1,3,5-TNB	65%		EP-01-059 at 0.0 feet
2,4,6-TNT	50%		EP-01-059 at 0.0 feet
	88%		EP-01-061 at 0.0 feet

As noted above, sample EP-01-059 at 0.0 feet had RPDs that exceeded the control limit of 30 percent for four compounds. Sample EP-01-061 at 0.0 feet had RPDs that exceeded the control limit of 30 percent for RDX and 2,4,6-TNT. These results do not affect the data quality, but do indicate matrix heterogeneity. The water field duplicates had no explosive analytes above the CRL, and therefore no RPDs were calculated.

The dioxin/furan soil field duplicate RPDs exceeded the control limit of 30 percent once for heptachlorodibenzofuran in sample SS-20-012 at 0.0 feet. These results do not affect the data quality, but do indicate matrix homogeneity. Dioxins and furans were not analyzed in the groundwater or surface water duplicate samples.

The metals soil field duplicate RPDs exceeded the control limit of 30 percent frequently, as shown in Appendix C-3. The metals with the highest percent of RPDs exceeding control limits (by a large percentage) are listed below:

- Antimony (3 out of 5 times)
- Silver (12 out of 18 times)
- Thallium (4 out of 8 times)
- Lead (21 out of 59 times)
- Beryllium (7 out of 19 times)

The water field duplicates exceeded the control limit of 30 percent only once for selenium with an RPD of 39 percent in well B-1. These results do not affect the data quality, but do indicate matrix heterogeneity.

The cyanide soil field duplicate RPDs exceeded the control limit of 30 percent four times, occurring once in each of the following samples: EP-01-046 at 3 feet with an RPD of 77 percent; sample SB-29-028 at 4.0 feet with an RPD of 39 percent, sample EP-01-059 at 0.0 feet with an RPD of 84 percent, and sample SS-04-005 at 0.0 feet with an RPD of 83 percent. These results do not affect the data quality, but do indicate matrix heterogeneity. The water field duplicates had no cyanide above the CRL, and therefore no RPD was calculated.

- Anibn soil field duplicate RPDs exceeded the control limit of 30 percent 17 times for phosphate, four times for chloride, and five times for nitrite plus nitrate. The water field duplicate RPDs were below the control limit of 30 percent for all anions except nitrite plus nitrate in sample SW-14-001 at 0.0 feet with an RPD of 59 percent. These results do not affect the data quality, but do indicate matrix heterogeneity.

The total recoverable petroleum hydrocarbons (TRPH) soil field duplicates exceeded the control limit of 30 percent two times. These results do not affect the data quality, but do indicate matrix heterogeneity. TRPH was not analyzed for in the groundwater or surface water duplicate samples. The remaining miscellaneous parameters are not discussed here, but are listed in Appendices C-1 through C-3.

Matrix Spike/Matrix Spike Duplicate Samples. The third type of QC used to assess the precision of the data was the RPDs of the MS/MSD samples. These duplicate results have much less variability than the field duplicates; thus they aid in detecting any systematic problems in an analysis. These analyses also helped determine how well the target analytes could be recovered from environmental matrices, identifying a matrix effect. Appendices C-4 and C-5 detail the results of the soil and water RPDs calculated based on the MS/MSD samples. A summary of the MS/MSD RPD nonconformances follows.

The VOC soil MS/MSD samples exceeded the control limits eight times. These nonconformances are shown below by spiking compound, control limit (in parentheses), calculated RPD, and associated spiked sample.

Spiking Compound	RPD	Spiked Sample
Benzene (21%)	28%	SB-29-013 at 3.0 feet
	24%	88-26-035 at 0.0 feet
Chlorobenzene (21%)	26%	SB-29-013 at 3.0 fact
	23%	88-27-006 at 0.0 feet
Toluene (21%)	23%	88-27-006 at 0.0 feet

The results for the above samples are qualified as estimated for all detectable concentrations due to these nonconformances. All the water samples had acceptable MS/MSD RPDs.

The SVOC soil MS/MSD samples exceeded their various control limits a total of 16 times; these nonconformances are summarized below by spiking compound, control limit (in parentheses), calculated RPD, and associated spiked sample.

Sniking Compound	RPD	Sniked Sample
4-Chloro-3-methylphenol (33%)	85%	SB-26-012 at 1.0 feet
·	61%	SD-45-001 at 0.0 feet
1,4-Dichlorobenzene (27%)	65%	SB-26-012 at 1.0 feet
2,4-Dinitrotoluene (47%)	89%	EP-01-018 at 6.5 feet
•	200%	SB-29-015 at 0.0 feet
	200%	SB-26-012 at 1.0 feet
	110%	EP-01-068 at 0.0 feet
	130%	SS-37-001 at 0.0 feet
N-nitrese-di-n-propylamine (38%)	67%	SB-26-012 at 1.0 feet
Pentachlorophenol (47%	52%	SS-19-004 at 0.0 feet
Phenol (35%)	61%	SB-26-012 at 1.0 feet
Pyrene (36%)	57%	SB-26-012 at 1.0 feet
1,2,4-Trichlorobenzene (23%	61%	SB-26-012 at 1.0 feet
2-Chlorophenol (50%)	63%	SB-26-012 at 1.0 fact
Acenaphthene (19%)	57%	SB-26-012 at 1.0 feet

The above samples will be qualified as estimated for all detectable concentrations due to these nonconformances. All the water samples had acceptable MS/MSD RPDs.

The OCP soil MS/MSD RPDs exceeded the control limits a total of 10 times, these nonconformances are summarized below by spiking compound, control limit (in parentheses), calculated RPD, and associated spiked sample.

Spiking Compound	RPD	Sniked Sample
a-Endosulfan (20%)	51%	SD-45-001 at 0.0 feet
	27%	SS-34-006 at 0.0 fact

	27%	SD-45-001 at 0.0 feet
DDT (20%)	100%	8B-29-007 at 0.0 feet
Isodrin (20%)	20%	88-34-006 at 0.0 feet
	976	80-45-401 at 0.0 feet

These samples are qualified as estimated for all detectable concentrations due to these nenconformances. All the water samples had acceptable MS/MSD RPDs.

Since there were no TEAD - N site specific MS/MSD samples analyzed with the six herbicide samples, evaluations were based on the acceptable LCS samples.

The explosives soil MS/MSD RPDs exceeded the control limits twice. These nonconformances are summarized below by the spiking compound, control limit (in parentheses), calculated RPD, and associated spiked sample.

Spiking Compound	RPD	Spiked Sample
1,3,5-TNB (25%)	28%	EP-01-001 at 2.0 feet
RDX (18%)	30%	EP-01-024 at 0.0 feet

The above samples are qualified as estimated for all detectable concentrations due to these nonconformances. The water samples had acceptable MS/MSD RPDs.

The TRPH MS/MSD RPDs were acceptable for all soil samples. No water samples were analyzed for TRPH.

The metals soil MS/MSD RPDs had variable acceptability dependent upon the metal. The control limits for graphite furnace atomic absorption (GFAA) metals were 20 percent for arsenic, selenium, and lead. Mercury by cold vapor atomic absorption had a control limit of 10 percent. The remaining metals were analyzed by inductively coupled plasma atomic absorption using a control limit of 25 percent.

Listed below are the spiked samples that had recoveries outside the acceptable limits for the indicated metal. The samples listed are ones that were outside the control limits by more than 10 percentage points, indicating a gross deviation from the limit. The samples below are qualified as estimated for any detectable concentrations due to these nonconformances.

		•	
•	Arsenic:	EP-01-045 at 3.5 feet	EP-01-054 at 2.0 feet
		EP-01-067 at 4.5 feet	SB-42-008 at 0.0 feet
		SS-26-035 at 0.0 feet	SS-28-001 at 0.0 feet
		SS-26-034 at 0.0 feet	
•	Selenium:	EP-01-045 at 3.5 feet	SB-29-014 at 3.0 feet
		SB-29-010 at 4.0 feet	SB-29-021 at 0.0 feet
•	Lead (GFAA):	EP-01-067 at 4.5 feet	EP-01-054 at 2.0 feet
		EP-01-056 at 2.0 feet	SB-01-001 at 5.0 feet
		SS-01-002 at 0.0 feet	88-19-010 at 0.0 feet
		88-37-010 at 0.0 feet	SB-29-010 at 4.0 feet
•		SB-29-021 at 0.0 feet	
•	Antimony	EP-01-018 at 6.5 feet	SB-42-003 at 0.0 feet
•	Cadmium	EP-01-072 at 0.0 feet	
•	Chromium	EP-01-005 at 7.0 feet	
•	Copper	EP-01-029 at 5.0 feet	EP-01-035 at 0.5 feet
		EP-01-042 at 2.0 feet	EP-01-072 at 0.0 feet
		EP-01-087 at 0.0 feet	SB-42-003 at 0.0 feet
		EP-01-096 at 3.5 feet	
•	Lead (ICP)	EP-01-005 at 7.0 feet	EP-01-018 at 6.5 feet
		EP-01-064 at 0.5 feet	EP-01-087 at 0.0 feet
		SB-42-006 at 0.0 feet	SB-42-003 at 0.0 feet
•	Nickel	EP-01-018 at 6.5 feet	EP-01-096 at 3.5 feet
•	Silver	EP-01-018 at 6.5 feet	SB-42-003 at 0.0 feet
•	Zine	EP-01-006 at 7.0 feet	EP-01-015 at 3.5 feet
		EP-01-029 at 5.0 feet	EP-01-054 at 2.0 feet
		SB-42-003 at 0.0 feet	SS-34-002 at 0.0 feet
		88-28-001 at 0.0 feet	

The metals water MS/MSD RPDs were acceptable except for one of each of the following analytes: calcium, sodium, and zinc. The RPDs for calcium and sodium were above the control limit of 15 percent by two percentage points and will not affect the data quality. The RPD for zinc was above the control limit of 15 percent by five percent and will have a very minimal effect on the data; therefore qualification is not necessary.

The cyanide soil MS/MSDs exceeded the 20 percent RPD control limit once in spiked sample EP-01-106 at 6.0 feet. This sample was associated with three other pairs of MS/MSD samples. However, the other MS/MSD samples all had acceptable RPDs, so this single

interest the second of the sec

The anions MS/MSD RPDs in soil exceeded the control limits a total of 15 times; these nonconformances are summarized below by anion, control limit (in parentheses), calculated RPD, and associated spiked sample.

Anion	RPD	Spiked Sample
Nitrite+Nitrate (10%)	122%	EP-01-011 at 3.0 feet
	10%	EP-01-035 at 6.0 feet
	15%	88-21-010 at 0.0 feet
	20%	SB-01-008 at 60.0 feet
Chloride (20%)	138%	SB-01-004 at 5.0 feet
	257%	SB-01-005 at 25.0 feet
	29%	SB-01-008 at 60.0 feet
Phosphate (20%)	36%	EP-01-007 at 3.0 feet
•	37%	EP-01-042 at 2.0 feet
	55%	EP-01-074 at 2.5 feet
	180%	EP-01-068 at 0.0 feet
	24%	SS-19-001 at 0.0 feet
	27%	SB-01-003 at 25.0 feet
	565%	EP-01-098 at 0.0 feet

The anion concentrations in the 14 samples listed above are qualified as estimated for all detectable concentrations due to these nonconformances. All the water samples had acceptable anion MS/MSD RPDs.

C.1.2.2. Accuracy. Accuracy, or the bias in a measurement system, is measured by determining the nearness of a data set to the true value. Accuracy for this project was evaluated based on laboratory control samples, surrogate compounds, and field samples spiked with target compounds (MS/MSD). Each type of spiked sample provided different information on the accuracy of the measurement system.

Laboratory Control Samples. LCSs were used as the primary control of accuracy in the laboratory system. As discussed in Section C.1.2.1, laboratory control sample results met preject and USATHAMA requirements. Therefore, the results of these samples are not discussed in this report.

Surrogate Compounds. Surrogate compounds spiked into field samples provide information of the efficiency of all steps of a gas chromatography/mass spectrometer (GC/MS) method in recovering these compounds from the individual environmental sample matrices. In the USATHAMA analytical program, surrogate recoveries are not used to determine if an analytical method is in control; instead they are used to obtain information on possible sample matrix effects. Surrogates, since they were spiked into every environmental sample, were the primary tool used to determine if matrix interference was present during the analysis of organic compounds. Therefore, surrogates will be the primary source for accuracy evaluation and data qualification. Appendices C-6 and C-7 detail the surrogates that are outside the established control limits. These tables are arranged by the analysis type and then by sample. Those surrogates that had gross deviations from the established recoveries are discussed here.

The GC/MS method used to analyze VOCs employs three surrogates: 1,2-dichloroethane-d4, 4-bromofluorobenzene, and toluene-d8. A total of 293 soil samples were analyzed for VOCs and the frequency that these surrogates exceeded the control limits is shown below (control limits are in parentheses).

1,2-Dichloroethane-d4 (85-115%)	15
4-Bromofluorobenzene (80-120%)	10
Toluene-d8 (81-117%)	62

Right samples had more than one VOC surrogate outside the recovery control limits. These samples are as follows:

EP-01-105 at 5.0 feet
EP-01-016 at 8.0 feet
EP-01-018 at 5.0 feet
SS-04-005 at 0.0 feet
SS-19-010 at 0.0 feet and its duplicate
SB-26-007 at 0.0 feet
SS-26-026 at 0.0 feet
AC-38-001 at 0.0 feet

Most of the remaining surrogate recoveries were marginally outside the limits by three or less percentage points. Three samples had surrogate recoveries that were significantly outside the control limits, these samples include: EP-01-018 at 6.5 feet, SB-26-015 at 1.0 feet,

and SB-26-001 at 0.0 feet. All these samples, except for the activated carbon sample (AC-38-001), are qualified as estimated for all detectable concentrations due to these nonconformances (Table C-2 in Section C.1.3 provides a detailed summary of which of the above samples had detectable concentrations and were qualified). Activated carbon is a very unique matrix and is not anticipated to behave in the same manner as the soil matrix, and therefore these limits may be too narrow. All the water samples had acceptable VOC surrogate recoveries.

The GC/MS method used to analyze SVOCs employs six surrogate compounds: 2,4,6-tribromophenol, 2-fluorobiphenyl, 2-fluorophenol, nitrobenzene-d5, phenol-d5, and terphenyl-d14. The SVOC compounds consist of base/neutral and acid extractable fractions. The SVOC surrogates provide information of the recovery of both fractions and allow for each fraction to be evaluated individually. A total of 275 soil samples was analyzed for SVOCs and the frequency that the surrogates exceeded the control limits is shown below (control limits are in parentheses) with the associated fraction defined.

Surrogate	No. of Exceedences	Fraction
2,4,6-Tribromophenol (20-1409	6) 2	Acid Surrogate
2-Pluorobiphenyl (30-115%)	2	Base/Neutral Surrogate
2-Fluorophenol (25-121%)	5	Acid Surrogate
Nitrobenzene-d5 (23-120%)	5	Base/Neutral Surrogate
Phenol-d5 (24-113%)		9 Acid Surrogate
Terphenyl-d14 (20-140%)	3	Base/Neutral Surrogate

As illustrated by the numbers above, the bulk of the surrogate recovery problem was in the acid fraction of the analyses. Ten samples had two or more of surrogates outside the recovery control limits, these samples are shown below with the recovery bias and affected fraction.

Sample Identification Fraction	Recovery Bias	Affected
SS-20-001 at 0.0 feet and duplicate	Low	Acid
SB-26-003 at 1.0 feet	Low	Aeid
SB-29-023 at 2.0 feet	Low	Acid
SS-37-010 at 0.0 feet	Low	Acid
AC-38-001 at 0.0 feet	Low	Both
SB-45-001 at 0.0 feet	Low	Acid

8D-46-008 at 0.0 feet	Low	Both
SD-45-004 at 0.0 fast	Three LewOne High	Both
SD-45-095 at 0.0 feat	Three LowOne High	Both
SD-45-006 at 0.0 feet and deplicate	Low	Acid

The samples listed above, except for the activated carbon sample (AC-38-091), will be qualified as estimated for all detectable concentrations due to these noncenformances. Activated carbon is a very unique matrix and is not enticipated to behave jn the same manner as the soil matrix, and therefore these limits may be ten narrow.

Approximately half of the SVOC surrogate compounds listed in Appendix C-7 had zero percent recoveries due to the noted dilution which effectively diluted the surrogate out of the quantitation range. The remaining surrogate exceedences occurred on distinct samples and exhibit limited matrix effects, these results do not affect the data quality since only one of six surrogates was outside the control limits (Punctional Guidelines [USEPA, 1968] do not suggest qualification when only one SVOC surrogate is not within limits). Section C.1.3 provides a detailed summary of which samples had detectable concentrations and were qualified. All the SVOC water surrogates had acceptable recoveries.

The GC analysis of OCPs utilizes two surrogates during the analysis of environmental samples: decachlerobiphonyl (DCB) as the primary surrogate and tetrachlero-meta-xylene (TCMX) as the secondary surrogate. Note: the TCMX surrogate is used when the primary surrogate has low recovery or significant interferences.

Eighty-six soil samples were analyzed for OCPs, with 12 occurrences of the surrogates enceeding the central limits (60-120% for DCB and 67-119% for TCMX). In one instance the secondary surrogate had to be used for evaluation. The majority of these exceedences were below the lower central limit, indicating a low response that is probably due to the number of dilutions required for quantitation. None of these samples require qualification. All of the water samples had acceptable surrogate recoveries.

Matrix Snike/Matrix Snike Duplicate Samples. The final type of QC parameter used to assess accuracy in almost all methods was field samples spiked with target analytes (MS/MSD samples). The laboratory randomly selected five percent of the field samples to be spiked as MS/MSD samples. The information gathered was used to assess the effect of the matrix on sample recovery. In general, individual spike recoveries for samples were within recovery objectives presented for more than 85 percent of the spiked samples.

Organic compounds are not qualified based on the results of the MS/MSD samples. The surrogates which were spiked into each individual sample have provided the primary criteria for evaluation as discussed in the previous section. For the inorganic analyses, MS/MSD sample results will only be used to evaluate the individual spiked sample. As determined from the evaluation of the duplicate field samples in Section C.1.2.1, there is a large degree of variability and heterogeneity at TEAD - N, so a direct relationship between one sample and the remaining samples in a lot would not be accurate. Therefore, if any nonconformances are found during the review of the inorganic parameters only the single spiked sample will be qualified. Appendices C-8 and C-9 list the recoveries for all the spiking compounds for each group of analyses. A summary of the number of out-of-control circumstances is described below.

The VOC analysis employs five spiking compounds. During the analysis of soil and water samples none of these compounds were outside the control limits.

The SVOC analysis employs 11 spiking compounds. During analyses of soil samples eight of these compounds were outside the various MS/MSD recovery control limits a total of 99 times. Those nonconformances that were outside the control limits by a wide margin (plus or minus 10 percentage points) are summarized below by spiking compound, control limit (in parentheses), recovery, and associated spiked sample.

Spiking Compound	Recovery	Spiked Sample
4-chloro-3-methylphenol (26-103%)	120%/120%	SS-04-005 at 0.0 feet
1,4-dichlorobenzene (28-104%)	120%/120%	SS-04-005 at 0.0 feet
2,4-dinitrotoluene (28-89%)	6%/14%	EP-01-018 at 6.5 feet
	15%/0%	SB-29-015 at 0.0 feet
	17%/23%	SB-29-024 at 0.0 feet
	0%	SB-26-012 at 1.0 feet
	91%	EP-01-071 at 2.5 feet
	0%/0%	SD-45-001 at 0.0 feet
	170%550%	EP-01-088 at 0.0 feet
	0%/0%	SS-20-008 at 0.0 feet
	6%	SS-37-001 at 0.0 feet
	350%/270%	88-21-004 at 0.0 feet
	0%/0%	SD-47-002 at 0.0 feet
	110%/100%	SS-04-005 at 0.0 feet

Sniking Compound	Recovery	Spiked Sample
•	100%/100%	EP-01-111 at 3.5 feet
4-nitrophenol (11-114%)	0%/0%	SB-29-015 at 0.0 fact
	0%/0%	SB-29-024 at 0.0 feet
•	0%/0%	SB-26-012 at 1.0 feet
	0%/0%	SS-26-034 at 0.0 feet
	0%/0%	SD-45-001 at 0.0 feet
	0%/0%	SS-20-006 at 0.0 feet
	0%/0%	SS-37-001 at 0.0 feet
·	140%	SS-21-004 at 0.0 feet
	0%/0%	SS-28-003 at 0.0 feet
·	0%/0%	SD-47-002 at 0.0 feet
	0%/0%	SS-28-006 at 0.0 feet
	0%/0%	EP-01-096 at 3.5 feet
	150%/140%	SS-04-005 at 0.0 feet
N-nitroso-di-n-propylamine (41-126%)	28%	SB-26-012 at 1.0 feet
	33%	SD-45-001 at 0.0 feet
Pentachlorophenol (17-109%)	0%/0%	SB-29-015 at 0.0 feet
	0%/0%	SB-29-024 at 0.0 fact
	0%/0%	SB-26-012 at 1.0 feet
	0%/0%	SS-26-034 at 0.0 feet
	3%6%	SS-19-004 at 0.0 feet
	0%/0%	SD-45-001 at 0.0 feet
	0%/0%	SS-20-008 at 0.0 feet
	0%/0%	SS-37-001 at 0.0 fact
	0%/0%	SS-28-003 at 0.0 fact
	0%/0%	SD-47-002 at 0.0 feet
	170%/170%	SS-04-005 at 0.0 feet
	0%/0%	SS-28-006 at 0.0 flat
	0%/0%	EP-01-096 at 3.5 feet
Phenol (26-90%)	120%/120%	SS-04-005 at 0.0 flot
2-chlorophenol (25-102%)	130%	SS-37-001 at 0.0 fact
	120%/120%	SS-04-005 at 0.0 flet

The soil samples listed above are not qualified based on the MS/MSD recovery nonconformances. The surrogate recoveries were evaluated instead to serve as the basis for any necessary qualification.

SVOC water temples had two of the 11 spiking compounds outside the MS/MSD recovery control limits a total of four times. These nonconformances are summarized below by spiking compound, control limit (in parentheses), recovery, and the associated spiked sample.

Sniking Compound	Recovery	Spiked Sample
2,4-dinitrotoluene (24-96%)	100%/98%	SW-45-002
Pentachlorophenol (9-103%)	107%/106%	SW-45-002

This sample will not be qualified since the recoveries are only narrowly outside the limits.

The OCP analysis employs 10 spiking compounds. During analyses of soil samples all of these compounds were outside the various MS/MSD recovery centrol limits a total of 41 times. The nonconformances that were outside the control limits by a wide margin (plus or minus 10 percentage points) are summarized below by spiking compound, control limit (in parentheses), recovery, and associated spiked sample.

Sniking Compound	Recovery	Spiked Sample
Methoxychlor (80-120%)	0%/0%	SB-29-031 at 0.0 feet
	132%	SD-45-001 at 0.0 feet
	214%/247%	SS-34-006 at 0.0 feet
Endosulfan A (45-150%)	0%/0%	SB-29-031 at 0.0 feet
Endosulfan B (20-200%)	0%/0%	SB-29-031 at 0.0 feet
	9%/5%	SD-45-001 at 0.0 feet
Endrin (30-150%)	0%/0%	SB-29-031 at 0.0 feet
	-156%/-317%	SS-34-006 at 0.0 feet
Heptachlor (35-110%)	124%/128%	SB-29-023 at 0.0 feet
	0%/0%	SB-29-031 at 0.0 feet
	118%/127%/113%	SD-45-001 at 0.0 feet
	127%/122%	SS-34-006 at 0.0 feet
Isodrin (80-120%)	0%/0%	SB-29-031 at 0.0 feet
	72%	SD-45-001 at 0.0 feet
	66%	SS-34-006 at 0.0 flot
Aldrin (42-122%)	0%/0%	SB-29-031 at 0.0 feet
g-BHC (20-140%)	0%/0%	SB-29-031 at 0.0 feet

DDT (25-160%)	337%	SB-29-007 at 0.0 feet
	0%/0%	SB-29-031 at 0.0 feet
	-901%/-97%	SS-34-006 at 0.0 feet
Dieldrin (40-140%)	0540%	SB-29-031 at 0.0 feet

Sample 5B-29-031 at 0.0 feet had 0 percent recovery because it was not spiked. The analyst inadvertently spiked the sample with surrogate standards twice. All of the soil samples listed above are not qualified based on the MS/MSD recovery nonconformances. The surrogate recoveries were the basis for any necessary qualification.

The water samples all had acceptable OCP MS/MSD recoveries.

The explosives analysis employs six spiking compounds. During the analysis of soil samples four of these compounds were outside the MS/MSD recovery control limits 20 times. The samples that were outside the control limits by a wide margin (plus or minus 10 percentage points) are summarized below by spiking compound, control limit (in parentheses), recovery, and associated spiked sample.

Spiking Compound	Recovery	Spiked Sample
2,4-DNT (68-106%)	57%/51%	SS-19-010 at 0.0 feet
	55%/53%	SD-45-002 at 0.0 feet
	50%/52%	88-21-007 at 0.0 feet
RDX (71-107%)	148%/109%	EP-01-024 at 0.0 feet
2,4,6-TNT (72-118%)	60%/55%%	SS-19-010 at 0.0 feet
	60%/57%	SD-45-002 at 0.0 feet
•	56%/62%	SS-21-007 at 0.0 feet

These soil samples will be qualified as estimated for all detectable concentrations due to the recovery nonconformances since surrogate recovery data were not available. However, only sample EP-01-024 at 0.0 feet requires qualification since it is the only one that had any detectable concentration.

All the explosive water samples had acceptable MS/MSD recoveries.

The MS/MSD spike recoveries for every metal analyzed in soil had some recoveries outside the 80 to 130 (for GFAA metals) and 75 to 125 (for Inductively Coupled Plasma Atomic Absorption [KCP] metals) percent acceptance limits, but most were low. One metal, selenium, was consistently outside (82 percent), while the others varied from 3 to 56 percent. Selenium, ersenic, antimony, and mercury are typically difficult to resever and are subject to interference. These low recoveries indicate that a matrix effect may be present. Since the laboratory control samples did not indicate a problem with the metals analyses, the actual concentrations may be higher than reported due to this low recovery.

Listed below is a subset of all the spiked samples that had recoveries outside the acceptable limits. The samples shown had detectable concentrations of the specified metal and were outside the control limits by more than 10 percentage points, indicating a gross deviation. These samples are qualified as estimated (with the exception of AC-38-001 which has a very unique matrix) since these nonconformances indicate a low bias. The number in parentheses is the total number of nonconforming recoveries.

GFAA Metals

•	Arsenic (16):	EP-01-001 at 2.0 feet	EP-01-003 at 2.0 feet
		EP-01-067 at 4.5 feet	EP-01-072 at 0.0 feet
		EP-01-045 at 3.5 feet	EP-01-054 at 2.0 feet
		EP-01-118 at 2.0 feet	EP-01-118 at 5.5 feet
		SS-26-035 at 0.0 feet	SS-28-001 at 0.0 feet
		SB-29-014 at 3.0 feet duplicate	SS-34-002 at 0.0 feet
		AC-38-001 at 0.0 feet duplicate	SB-42-008 at 0.0 feet
		SB-45-001 at 9.0 feet	

•	Selenium (34): EP-01-029 at 5.0 feet	SS-26-034 at 0.0 feet
	AC-38-001 at 0.0 feet	•

• Lead (12):	EP-01-054 at 2.0 feet	SB-01-001 at 5.0 feet	
		EP-01-121 at 9.0 feet	SS-01-002 at 0.0 feet
		SS-19-010 at 0.0 feet	SB-29-014 at 3.0 feet
		SB-29-010 at 4.0 feet	SB-29-021 at 0.0 feet
		SS-37-010 at 0.0 feet	SB-45-001 at 9.0 feet
		SB-BK-001 at 0.0 feet	EP-01-067 at 4.5 feet

Cold Vapor Atomic Absorption Metals

Mercury (10): SD-14-002 at 0.0 feet

ICP Metals

•	Antimony (20):	EP-01-018 at 6.5 feet	EP-01-118 at 0.0 feet
		SB-42-006 at 0.0 feet	SB-42-003 at 0.0 feet
			EP-01-072 at 0.0 feet
•	Cadmium (4):	EP-01-067 at 4.5 feet	EP-01-072 at 0.0 feet
	•	SB-29-015 at 0.0 feet	
<i>:</i> -	Chromium (4):	EP-01-005 at 7.0 feet	EP-01-015 at 3.5 feet
		EP-01-042 at 2.0 feet	SB-29-015 at 0.0 feet
•	Cobalt (2):	EP-01-042 at 2.0 feet	SB-29-015 at 0.0 feet
•	Copper (14):	EP-01-067 at 4.5 feet	EP-01-072 at 0.0 feet
		EP-01-018 at 6.5 feet	EP-01-029 at 5.0 feet
		EP-01-045 at 3.5 feet	EP-01-042 at 2.0 feet
		EP-01-064 at 0.5 feet	EP-01-087 at 0.0 feet
		EP-01-096 at 3.5 feet	EP-01-115 at 9.5 feet
		SS-26-034 at 0.0 feet	SB-29-015 at 0.0 feet
		SB-42-008 at 0.0 feet	SB-42-003 at 0.0 feet
•	Lead (16)		•
		EP-01-067 at 4.5 feet	EP-01-072 at 0.0 feet
		EP-01-018 at 6.5 feet	EP-01-029 at 5.0 feet
		EP-01-042 at 2.0 feet	EP-01-064 at 0.5 feet
		EP-01-087 at 0.0 feet	EP-01-118 at 0.0 feet
		EP-01-118 at 5.5 feet	SS-26-035 at 0.0 feet
		SS-26-034 at 0.0 feet	SS-28-001 at 0.0 feet
		SB-29-015 at 0.0 feet	SB-42-008 at 0.0 feet
		SB-42-003 at 0.0 feet	SB-45-001 at 9.0 feet
•	Nickel (3):	EP-01-018 at 6.5 feet	EP-01-042 at 2.0 feet
		SB-29-015 at 0.0 feet	
•	Silver (5):	EP-01-018 at 6.5 feet	EP-01-042 at 2.0 feet
-		EP-01-118 at 0.0 feet	SB-42-003 at 0.0 feet
		· · · · · · · · · · · · · · · · · · ·	

• Thallium (2): No detectable concentrations

•	Vanadium (2): EP-01-042 at 2.0 feet		SB-29-015 at 0.0 feet	
•	Zine (14):	EP-01-005 at 7.0 feet	EP-01-015 at 3.5 feet	
		EP-01-072 at 0.0 feet	EP-01-018 at 6.5 feet	
		EP-01-029 at 5.0 feet	EP-01-045 at 3.5 feet	
		EP-01-054 at 2.0 feet	EP-01-042 at 2.0 feet	
		SS-26-035 at 0.0 feet	SS-28-001 at 0.0 feet	
		SB-29-015 at 0.0 feet	SS-34-002 at 0.0 feet	
		AC-38-001 at 0.0 feet	SB-42-003 at 0.0 feet	

During the water sampling effort four metals (selenium, lead, mercury, and zinc) and three cations (calcium, magnesium, and sodium) were outside their various MS/MSD recovery control limits. The lead, mercury, and magnesium recoveries were only marginally outside the limits and, since there were no detectable selenium concentrations, no qualification is required. The remaining analytes in samples B-1 and SW-14-001 (calcium, sodium, and zinc) will be qualified as estimated due to large MS/MSD recovery nonconformances.

There was only one low MS/MSD recovery for all the soil cyanide analyses. This occurred in sample EP-01-013 at 4.5 feet. This sample had five other acceptable spike recoveries; therefore, the impact of this single nonconformance is very limited and no qualification is required. The cyanide water analyses also had a single nonconforming MS/MSD recovery in sample SW-47-001. The recovery was 138 percent and the upper limit on the control is 115 percent. There was no detectable concentration of cyanide in this sample, and therefore no qualification is needed.

The soil anions MS/MSD recoveries were generally acceptable except for the samples listed below for the specified anions.

•	Nitrite plus Nitrate:	EP-01-011 at 3.0 feet	SS-21-005 at 0.0 fact
•	Sulfate:	EP-01-016 at 4.5 feet	
•	Chloride:	EP-01-011 at 3.0 feet	EP-01-016 at 4.5 feet
		EP-01-023 at 5.5 feet	SB-01-004 at 5.0 fast
		SB-01-005 at 25.0 feet	SB-01-008 at 60.0 feet

Phosphate:

EP-01-042 at 2.0 feet EP-01-074 at 2.5 feet

SS-19-001 at 0.0 feet SS-19-010 at 0.0 feet duplicate

SB-01-003 at 25.0 feet SS-21-010 at 0.0 feet

EP-01-097 at 0.0 feet EP-01-098 at 0.0 feet

All the samples listed above had detectable concentrations of the specified anion except for the sulfate sample (EP-01-016 at 4.5 feet) and the first phosphate sample listed (EP-01-042 at 2.0 feet). The remaining samples will be qualified as estimated due to these MS/MSD recovery nonconformances.

All the water samples had acceptable MS/MSD recoveries for the anion analyses.

C.1.2.3. Representativeness. This objective expresses how well data represent the characteristics of a population, parameter variations, or environmental conditions. Representativeness was evaluated by the analysis of method blanks, trip blanks, source water samples, equipment rinsate blanks, and filter blanks. The results of these samples are discussed below.

Mathad Blanks. A single method blank is run with every USATHAMA lot to provide a measure of contamination derived from laboratory equipment and reagents. USATHAMA lots are analysis dependent, which means that the same samples are not always grouped together for each analysis. The size of the lot is dependent upon the laboratory performing the analyses, since the size is set by the number of samples that the laboratory can process through the rate-limiting step of each method in one 24-hour period. USATHAMA sets 75 as the maximum number of samples that may be included in a lot. The discussions below identify which lots had method blank concentrations above the CRL and which samples in these lots were affected. Additionally, this information is summarized in Appendices C-10 through C-13 which detail the method blanks that were contaminated and the samples associated with each of those blanks. The method blank results for both soil and groundwater were generally below the CRLs with the exceptions itemized below:

 Two soil lots had method blanks with concentrations of acctone (a VOC) above the CRL of 0.017 μg/g. Lot YSN had a concentration of 0.020 μg/g and lot ZTB had a exponentration of 0.040 agig. There were no samples in either let that had concentrations of acetone above the CRL.

- Three soil lots had method blanks with concentrations of trichlorofluoro-methane (a VOC) above the CRL of 0.00590 μg/g. Lot ZTA had a concentration of 0.01000 μg/g, lot AJB had a concentration of 0.00600 μg/g, and lot AJC had a concentration of 0.00800μg/g. In lots AJB and AJC, no samples had concentrations of trichlorofluoromethane above the CRL. In lot ZTA, one sample had a trichlorofluoromethane concentration above the CRL. This sample, SB-26-011 at 1.0 feet, had 0.00813 μg/g of trichlorofluoromethane and will be qualified as nondetect since it is less than five times the concentration detected in the method blank.
- Three soil lots had method blanks with concentrations of chloroform (a VOC) above
 the CRL of 0.00087 μg/g. Lot YSV had a concentration of 0.00090 μg/g, lot YSZ had a
 concentration of 0.00200 μg/g, and lot ZTA had a concentration of 0.00100 μg/g.
 There were no samples in any of these three lots that had detectable concentrations
 of chloroform.
- Water lot ZPL's method blank had a concentration of chloroform (a VOC) above the CRL of 0.50 μg/L. The chloroform concentration in the method blank sample was 0.52 μg/L. There was one sample in this lot, SW-47-001, that had a chloroform concentration of 1.00 μg/L. This sample will be qualified as nondetect since its concentration is less than ten times that found in the method blank.
- Water lot ZRI's method blank had a concentration of bis(2-ethylhexyl)phthalate
 (an SVOC) above the CRL of 4.8 μg/g. The method blank had a concentration of 6.6
 μg/L. The two samples in this lot require no qualification since this compound was
 not detected.
- One soil lot had a method blank concentration above the CRL for TRPH (21.0 µg/g). Lot ZOX had a TRPH concentration of 31.2 µg/g. This lot includes 13 samples, eight of which were found to have TRPH concentrations above the CRL. The following seven samples will be qualified as nondetect since their TRPH concentrations are less than five times that of the associated method blank.

Sample	Depth	Concentration
SB-29-030	4.0	33.2 μ g/L .
SB-29-031	4.0	34.2 µg/L
SB-29-032	4.0	44.7 µg/L
SB-29-033	3.0	41.4 µg/L
59-29-034	3.0	80.5 µg/L
SB-29-036	3.0	41.8 µg/L
SB-29-037	4.0	33.5 µg/L

One soil lot had a method blank with concentrations of arsenic above the CRL of 0.250 µg/g. ZIZ had an arsenic concentration of 0.262 µg/g. All 34 samples in this lot had detectable concentrations of arsenic. Since these concentrations were all greater than five times the concentration found in the method blank, they do not require qualification.

Trip Blanks. Trip blanks, the second type of QC sample used to assess representativeness, provided information on possible VOC contamination of field samples during handling and shipment. Appendix C-14 lists the trip blanks collected and analyzed. Forty-nine trip blank samples were submitted with aqueous and soil field samples. The majority of the trip blanks had no detectable concentrations of VOCs present, however 11 trips blanks did. These trip blanks, detailed in Appendix C-14, are listed with the samples that accompanied them. The compound detected most frequently in was toluene. The dates associated with the contaminated trip blanks correspond to the time when the laboratory was undergoing construction (painting of some type). Since this problem only occurred during this time frame, it appears to be caused by laboratory contamination. Only three samples from the July 21, 1992 shipment require qualification due to this situation: SS-04-001 at 0.0 feet, SS-04-002 at 0.0 feet, and SS-04-003 at 0.0 feet will all be qualified as nondetect for toluene due to this nonconformance.

Source Water Samples. The source water samples, the third type of QC used to assess representativeness, provided information on the water used to decontaminate the sample collection devices. Duplicate source water samples were taken from water well 3 (WW-3) and analyzed for all analyses scheduled for environmental samples. These analyses were performed prior to the beginning of field work and all detectable concentrations of analytes are detailed in Appendix C-15. These results were used to determine the effectiveness of the decontamination procedures, which are discussed in the equipment rinsate blank section below.

On July 30, 1962, lighting account WW-L and destroyed the pump. Due to this simusion, water from well WW-2 was analyzed and used for steam cleaning and grout mixing purposes only. All the water used for equipment blank collection came from a reserve of WW-3 water.

Equipment Rinsate Blanks. Equipment rinsate blanks provided a measure of the cumulative contamination derived from the field sampling equipment, sample transit, storage, and analysis. The equipment rinsate blanks were analyzed for the same parameters as the associated samples. A total of 62 equipment rinsate blanks was collected. At the beginning of the field effort two teams were on site collecting samples and each team collected a rinsate blank daily. Approximately one-third of the way through the project, the collection frequency was reduced to one per day total, so the equipment blank collection was rotated between the two teams.

Samples were obtained by collecting purified deionized water that had been poured over or through a decontaminated sample collection device. Appendix C-16 lists the analytes that were found in the equipment rinsate blanks at concentrations above the CRL. This table also lists the samples collected prior to the rinsate blank and the analyte concentrations present in both. Analytes found in the source water were ignored during the evaluation of the samples preceding the rinsate blanks in order to provide a more precise measure of the decontamination process only.

Chloroform was found in two equipment rinsate blanks, but was not found in the preceding samples, indicating its presence is not the result of carry-over. Chloroform is a common field and laboratory contaminant and may be attributed to one of these sources. This nonconformance does not affect the data.

Bis(2-ethylhexyl)phthalate was detected in one equipment rinsate blank. It was not detected in the sample preceding the equipment rinsate blank, and therefore does not indicate a carry-over problem. This compound is a common laboratory contaminant and its presence does not impact the data.

Metals were detected in several equipment rineate blanks. Those most frequently detected were lead, zinc, copper, iron, vanadium, selenium, and arsenic. In many cases, these metals were also detected in the sample preceding the rineate blank, indicating the possibility of carry-over. The concentrations were low so the impact on the data is minimal and therefore no qualification is necessary.

<u>Filter Blanks</u>. The last type of QC sample, filter blanks, provided information on the inorganic contamination that derived from the filtration process. Appendix C-17 presents these results in tabular form. Four filter blanks were collected during this phase of work. Selenium was detected in all of the filter blanks at low levels. Zinc and lead were both detected twice and copper was detected once. These results have a very minimal impact on the data and require no sample qualification.

C.1.2.4. Comparability. The characteristic of comparability reflects the consistency of sample collection and handling procedures, analytical techniques, and expression of results in units consistent with other organizations reporting similar data. No changes to planned procedures were implemented that would affect data comparability. The use of USATHAMA protocols assists in assuring all data are comparable.

C.1.2.5. Completeness. The completeness measurement compares the amount of valid data obtained compared to the amount that was expected to be obtained under normal conditions. Two completeness objectives were established for this project: 100 percent for all background samples and 90 percent for all other types of samples.

The objectives for background and other field sample results were met. All data planned for collection regarding background samples were obtained. The completeness achieved for this project was 100 percent. All analyses for the TEAD - N Suspected Release RFI Phase I Study soil and water samples were performed within holding times.

A few changes occurred during the field effort that should be noted. These changes include the following:

- Nitroguanidine was originally an analyte of interest for this project. However, it was removed from the request list approximately one-third of the way through the program since it was not being detected and there was no historical record of its use on the site.
- A correction to the DCQAP was made approximately 3 weeks after sampling had begun to change the collection frequency of field duplicates from 5 percent to 10 percent.

with added to these abresty planned.

C.1.S. Data Quality and MI Objectives

This section is a summary of the data evaluation provided in the preceding section. The analytical data collected as part of the TEAD - N Suspected Release RFI Phase 1 Study is of a known and acceptable quality to be used to evaluate site contamination and potential risk to human health and the environment. A small percentage of the data is qualified due to either unforcessen or inherent problems with the measurement system. Table C-2 provides a summary of all the qualified samples, along with the compound or analytical group and a comment section describing the reason for the qualification. Some compounds could not be qualified based strictly on the QC results; these compounds include some phthalates, freens, hexane and chloroform. Each of these compounds is included on the table and preceded by an asterisk. The concentrations found were relatively low, isolated, and more indicative of contamination than true site conditions. These compounds are not recommended for inclusion in the contamination assessment based on the reviewer's professional judgment.

TABLE C-2
SUMMARY OF DATA EVALUATION AND DATA ANOMALIES CONSIDERATIONS FOR THE CONTAMINATION ASSESSMENT

Somple	Depth (ft)	Compound	Comment
SWMU NO. 1 Main Demolitic	on Area		
EP-01-005	7.0	Chromium, Zinc	Estimated due to MS/MSD re- covery nonconformances.
EP-01-007	3.0	Phosphate	Estimated due to MS/MSD RPD nonconformances.
EP-01-011	3.0	Nitrage+Nitrige	Estimated due to MS/MSD RPD nonconformances.
EP-01-015	3.5	Chromium, Zinc	Estimated due to MS/MSD re- covery nonconformances.
EP-01-018	5.0	VOCs	Estimated due to surrogate re- covery nonconformances.
EP-01-018	6.5	Trichlorofluoromethane	*Preon - probable lab contaminant or refrigerant leak.
		Bis(2-ethylhexyl)phthalate	*Common lab contaminant.
		Antimony, Nickel, Silver, Zinc	Estimated due to MS/MSD re-
		Lead	covery nonconformances.
EP-01-018 Dep	6.5	Tricklorofluoromethane	*Preon - probable lab contaminant or refrigerant leak.
EP-01-024	0.0	Explosives	Estimated due to MS/MSD RPD nonconformances.
EP-01-029	5.0	Selenium, Zinc, Lead	Estimated due to MS/MSD re- covery nonconformances.
EP-01-035	6.0	Phosphate	Estimated due to MS/MSD RPD nonconformances.
EP-01-042	2.0	Phosphate	Estimated due to MS/MSD RPD nonconformances.
		Chromium, Cobalt, Nickel, Silver	Estimated due to MS/MSD re-
		Vanadium, Zinc, Lead	covery nonconformances.
EP-01-045	3.5	Ziac	Estimated due to MS/MSD re-
			covery nonconformances.
EP-01-054	2.0	Zinc, Lead	Estimated due to MS/MSD re-
	. -		covery nonconformances.
EP-01-064	0.5	Lead	Estimated due to MS/MSD re-
55 A1 A25		Code-in- 1 and	COVERY RORCORFORMANCES.
EP- 01-067	4.5	Cadmium, Lead	Estimated due to MS/MSD re-
			covery nonconformances.

SUMMARY OF DATA EVALUATION AND DATA ANOMALIES CONSIDERATIONS FOR THE CONTAMINATION ASSESSMENT
(CONTINUED)

Sempl	e Depth (ft)	Compound	Comment
SWMU NO. 1 Main Den	nolition Area (continued)	
EP-01-0	0.0	Cadmuim, Zinc, Lead	Estimated due to MS/MSD re- covery nonconformances.
EP-01-0	774 2.5	Bis(2-ethylhexyl)phthalate Phosphate	*Common lab contaminant. Estimated due to MS/MSD RPD nonconformances.
EP-01-0	6.0	Bis(2-ethylhexyl)phthalate	*Common lab contaminant.
SB-01-0	001 5.0	Lead	Estimated due to MS/MSD re- covery nonconformances.
SB-01-0	03 25.0	Phosphate	Estimated due to MS/MSD RPD
SS-01-0	0.0	Lead	Estimated due to MS/MSD re- covery nonconformances.
SWMU NO. 1A Cluster	Bomb Area		
SB-01-0	5.0	Chloride	Estimated due to MS/MSD RPD nonconformances.
SWMU NO. 1B Burn par	d Area		
EP-01-0	98 0.0	Phosphate	Estimated due to MS/MSD RPD
EP-01-0	99 7.0	Tetrachloroethene	Detected as TIC by SVOC method, but not confirmed by VOC analysis.
SB-01-0	06 35.0	Bis(2-ethylhexyl)phthalate	*Common lab contaminant.
SWMU NO. 1C Trush B	um Pits		
EP-01-1	05 5.0	Tricklorofluoromethane	*Preon - probable lab contaminant or refrigerant leak.
EP-01-1	06 6.0	Tricklorofluoromethane	*Preon - probable lab contaminant or refrigerant leak.
EP-01-1	06 8.0	Trichlorofluoromethans	*Preon - probable lab contaminant or refrigerant look.

TABLE C-2
SUMMARY OF DATA EVALUATION AND DATA ANOMALIES CONSIDERATIONS FOR THE CONTAMINATION ASSESSMENT
(CONTINUED)

Semple	Depth (ft)	Compound	Comment
SWMU NO. 1C Trash Burn I	Pits (continu	ued)	
EP-01-107	1.0	Tricklorofluoromethane	*Preon - probable lab contaminant or refrigerant leak.
EP-01-107	5.0	Trichlorofluoromethane	*Freon - probable lab contaminant or refrigerant leak.
EP-01-108	5.0	Trichlorofluoromethane	*Freon - probable lab contaminant or refrigerant leak.
EP-01-108	7.0	Trichlorofluoromethane	*Freon - probable lab contaminant or refrigerant leak.
EP-01-112	5.5	Chloroform	Possible artifact from source water.
EP-01-118	0.0	Antimony, Silver, Lead	Estimated due to MS/MSD re- covery nonconformances.
EP-01-118	5.5	Lead	Estimated due to MS/MSD re- covery nonconformances.
EP-01-121	9.0	Lead	Estimated due to MS/MSD re- covery nonconformances.
SB-01-008	60.0	Chloride, Nitrate+Nitrite	Estimated due to MS/MSD RPD nonconformances.
SWMU NO. 1D Propellant B	ium Pad		
EP-01-087	0.0	Lead	Estimated due to MS/MSD re- covery nonconformances.
EP-01-088	0.0	Di-n-butyl phthalate SVOCs	*Common lab contaminant. Estimated due to MS/MSD RPD nonconformances.
SB-01-005	25.0	Phosphate Chloride	Estimated due to MS/MSD RPD Estimated due to MS/MSD RPD nonconformances.
SWMU NO. 4 Sandblast Are	a		
SS-04-001	0.0	Trichlorofluoromethane	*Preon - probable lab contaminant or refrigerant leak.
		Toluene	Qualified as ND due to trip blank.
		Bis(2-ethylhexyl)phthalate	*Common lab contaminant.

TABLE C-2

SUMMARY OF DATA EVALUATION AND DATA ANOMALIES -CONSIDERATIONS FOR THE CONTAMINATION ASSESSMENT (CONTINUED)

	Sample	Depth (ft)	Сотрока	Comment
SWMU NO.	4 Sandblast Area	(contin	ued)	
	SS-04-002	0.0	Trichlorofluoromethanië	*Preon - probable lab contaminant or refrigerant leak.
			Toluene	Qualified as ND due to trip blank.
	SS-04-003	0.0	Trichlorofluoromethane	*Freon - probable lab contaminant or refrigerant leak.
			Toluene	Qualified as ND due to trip blank.
			Bis(2-ethylhexyl)phthalate	*Common lab contaminant.
	SS-04-004	0.0	1,1,2-Trichloro-1,2,2-trifiuoroethane	*Freon - probable lab contaminant or refrigerant leak.
			Trichlorofluoromethane	*Preon - probable lab concaminant or refrigerant leak.
			Toluene	Qualified as ND due to trip blank.
			Bis(2-ethylhexyl)phthalate	*Common lab contaminant.
			Di-n-butyl phthalate	*Common lab contaminant
	SS-04-005	0.0	Bis(2-ethylhexyl)phthalate	*Common lab contaminant.
	SS-04-005 Dup	0.0	Bis(2-ethylhexyl)phthalate	*Common lab contaminant.
SWMU NO.	14 Sewage Lagoo	ns		
	SD-14-002	0.0	Mercury	Estimated due to MS/MSD re- covery nonconformances.
SWMU NO.	19 AED Demilita	rization	Test Facility	
	SS-19-001	0.0	Phosphate	Estimated due to MS/MSD RPD nonconformances.
	SS-19-003	0.0	Bis(2-ethylhexyl)phthalate Di-n-butyl phthalate	*Common lab contaminant. *Common lab contaminant.
	SS-19-00 9	0.0	Tricklorofluoromethane	*Preon - probable lab contaminant or refrigerant leak.
	\$\$- 19-010	0.0	Lend	Enimated due to MS/MSD re- covery nonconformances.

TABLE C-2
SUMMARY OF DATA EVALUATION AND DATA ANOMALIES CONSIDERATIONS FOR THE CONTAMINATION ASSESSMENT
(CONTINUED)

Sample	Depth (ft)	Compound	Comment
SWMU NO. 19 AED Demilia	arization Te	est Pacility (continued)	
SS-19-010 and dup	0.0	VOCs	Estimated due to surrogate re- covery nonconformances.
SS-19-010 Dup	0.0	Trichlorofluoromethane	*Preon - probable lab contaminan or refrigerant leak.
SS-19-011	0.0	Di-n-butyl phthalate	*Common lab contaminant
SWMU NO. 20 AED Deactiv	ration Furna	ce Site	
SS-20-011	0.0	Dimethyl phthalate	*Common lab contaminant
SS-20-015	0.0	Trichlorofluoromethane	*Preon - probable lab contaminant or refrigerant leak.
		Toluene	*Lab artifact due to construction
SS-20-016	0.0	Trichlorofluoromethane	*Preon - probable lab contaminant or refrigerant leak.
SWMU NO. 21 AED Deactiv	ation Furns	ace Building	
SS-21-002	0.0	Toluene Di-n-butyl phthalate	Qualified as ND due to trip blank *Common lab contaminant.
SS-21-003	0.0	Di-n-butyl phthalate	*Common lab contaminant.
SS-21-005	0.0	Toluene	Qualified as ND due to trip blank
SS-21-006	0.0	Toluene	Qualified as ND due to trip blank
SS-21-007	0.0	Toluene	Qualified as ND due to trip blank
SS-21-008	0.0	Di-n-butyl phthalate	*Common lab contaminant.
SS-21-009	0.0	Di-a-butyl phthalate	*Common lab contaminant.
SS-21-010	0.0	Di-n-butyl phthalate Nitrato+Nitrite	*Common lab contaminant. Estimated due to MS/MSD RPD nonconformances.

SUMMARY OF DATA EVALUATION AND DATA ANOMALIES CONSIDERATIONS FOR THE CONTAMINATION ASSESSMENT
(CONTINUED)

Sample	Depth (ft)	Compound	Comment
SWMU NO. 26 DRMO Storag	ge Yard		
SB-26-010	0.0	Bis(2-ethylhexyl)phthalate	*Common lab contaminant.
SB-26-011	0.0	Trichlorofluoromethane	*Common lab contaminant.
SB-26-011 and Duplicate	1.0	Trichlorofluoromethane	Qualified as ND due to method blank contamination.
SB-26-013	0.0	Trichlorofluoromethane	*Preon - probable lab contaminant or refrigerant leak.
SB-26-014	0.0	Trichlorofluoromethane	*Freon - probable lab contaminant or refrigerant leak.
SB-26-015	0.0	Trichlorofluoromethane	*Preon - probable lab contaminant or refrigerant leak.
SS-26-023	0.0	Acetone	Qualified as ND due to method blank contamination.
SS-26-026	0.0	Trichlorofluoromethane	*Preon - probable lab contaminant or refrigerant leak.
		VOCs	Estimated due to surrogate re- covery nonconformances.
SS-26-032	0.0	Trichlorofluoromethane	*Preon - probable lab contaminant or refrigerant leak.
SS-26-034	0.0	Selenium, Lead	Estimated due to MS/MSD re- covery nonconformances.
SS-26-035	0.0	Zinc, Lead	Estimated due to MS/MSD re- covery nonconformances.
SS-26-038	0.0	Trichlorofluoromethane	Freon - probable lab contaminant or refrigerant leak.
SWMU NO. 27 RCRA Contai	iner Stora	ge Area	
\$S-27-001 Dup	0.0	Hexane	*Common lab solvent - probable
\$\$-27-002	0.0	Hexane	Common lab solvent, probable
SS-27-003	0.0	Hexane	contaminant. *Common lab solvent, probable

TABLE C-2

SUMMARY OF DATA EVALUATION AND DATA ANOMALIES CONSIDERATIONS FOR THE CONTAMINATION ASSESSMENT
(CONTINUED)

Semp	ole Depth (ft)	Compound	Comment
SWMU NO. 27 RCRA	Container Stora	ge Area (continued)	
SS-27-	004 0.0	Hexane	*Common lab solvent, probable contaminant.
SS-27-	005 0.0	Hexane	Common lab solvent, probable contaminant.
SS-27-	0.0	Hexane	*Common lab solvent, probable contaminant.
		VOCs	Estimated due to nonconforming MS/MSD RPD.
SS-27-	0.0	Hexane	*Common lab solvent.
SWMU NO. 28 90-Day	Drum Storage	Area	
SS-28-	001 0.0	Zinc, Lead	Estimated due to MS/MSD re- covery nonconformances.
SS-28-	002 0.0	Acetone	Qualified as ND due to method blank contamination.
		Butylbenzyl phthalate	*Common lab contaminant.
SWMU NO. 29 Drum S	itorage Area		
SB-29-	003 3.0	Hexane	*Common lab solvent, probable
SB-29-	008 4.0	Bis(2-ethylhexyl)phthalate	*Common lab contaminant.
SB-29-	010 4.0	Lead	Estimated due to MS/MSD re- covery nonconformances.
SB-29-	011 3.0	Hexane	*Common lab solvent, probable contaminant.
SB-29-	012 3.0	Hexane	"Common lab solvent, probable contaminant.
SB-29-	013 3.0	Hexane	*Common lab solvent, probable contaminant.
SB-29-	014 3.0	Hexane	*Common lab solvent, probable
		Lead	Estimated due to MS/MSD re- covery nonconformances.

TABLE C-2
SUMMARY OF DATA EVALUATION AND DATA ANOMALIES CONSIDERATIONS FOR THE CONTAMINATION ASSESSMENT
(CONTINUED)

Sample	Depth (ft)	Compound	Comment
SWMU NO. 29 Drum Storage	Area (co	ntinued)	
SB-29-014 Dup	3.0	Hexane	*Common lab solvent, probable contaminant.
SB-29-015	3.0	Hexane	*Common lab solvent, probable contaminant.
		Cadmium, Chromium, Cobalt	Estimated due to MS/MSD re-
		Nickel, Vanadium, Zinc, Lead	covery nonconformances.
SB-29-015 Dup	0.0	Hexane	 *Common lab solvent - probable contaminant.
SB-29-017	3.0	Hexane	*Common lab solvent - probable contaminant.
SB-29-021	0.0	Lead	Estimated due to MS/MSD re- covery nonconformances.
SB-29-028	4.0	Bis(2-ethylhexyl)phthalate	*Common lab contaminant.
SB-29-030	0.0	Hexane	*Common lab solvent - probable contaminant.
SB-29-030	4.0	Hexane	*Common lab solvent - probable contaminant.
		ТРН	Qualified as ND due to method blank contamination.
SB-29-031	4.0	TRPH	Qualified as ND due to method blank contamination.
SB-29-032	4.0	Hexane	*Common lab solvent - probabl contaminant.
		TRPH	Qualified as ND due to method blank contamination.
SB-29-033	0.0	Hexane	*Common lab solvent - probable contaminant.
SB-29-033	3.0	TRPH	Qualified as ND due to method blank contamination.
SB-29-034	4.0	TRPH	Qualified as ND due to method blank contamination.
SB-29-035	4.0	Hexane	*Common lab solvent - proba V contaminant.
\$8-29-036	3.0	Hexane	*Common lab solvent - probab contaminant,

TABLE C-2
SUMMARY OF DATA EVALUATION AND DATA ANOMALIES CONSIDERATIONS FOR THE CONTAMINATION ASSESSMENT
(CONTINUED)

	Sample	Depth (ft)	Compound	Comment
SWMU NO. 29	Drum Storag	e Area (co	entinued)	
			TRPH	Qualified as ND due to method blank contamination.
	SB-29-037	4.0	Hexane	*Common lab solvent - probable contaminant.
			TRPH	Qualified as ND due to method blank contamination.
SWMU NO. 34	Pesticide Har	ndling and	Storage Area	
	SS-34-002	0.0	Zinc	Estimated due to MS/MSD re- covery nonconformances.
	SS-34-006	0.0	Organochlorine Pesticides	Estimated due to nonconforming MS/MSD RPDs.
SWMU NO. 37	Contaminated	Waste Pr	ocessing Plant	
	SS-37-001	0.0	SVOCs	Estimated due to nonconforming MS/MSD RPDs.
	SS-37-010	0.0	SVOCs	Estimated due to surrogate re- covery nonconformances.
			Lead	Estimated due to MS/MSD re- covery nonconformances.
SWMU NO. 38	Industrial Wa	iste Treati	nent Plant	
	SS-38-001	0.0	1,1,2-Trichloro-1,2,2-trifluoroethane	*Freon - probable lab contaminant or refrigerant leak.
			Trichlorofluoromethane	*Preon - probable lab contaminant or refrigerant leak.
SWMU NO. 42	Bomb Washo	ut Buildin	8	
•	SB-42-003	0.0	Antimony, Silver, Zinc, Lead	Estimated due to MS/MSD re- covery nonconformances.
	SB-42-008	0.0	Antimony, Lead	Estimated due to MS/MSD re- covery nonconformances.

TABLE C-2

SUMMARY OF DATA EVALUATION AND DATA ANOMALIES CONSIDERATIONS FOR THE CONTAMINATION ASSESSMENT (CONTINUED)

	Sample	Depth (ft)	Compound	Comment
SWMU NO. 45	Stormwater	Teatment A	rea	
	SB-45-001	1.0	Bis(2-ethylhexyl)phthalate	*Common lab contaminant.
	SB-45-001	9.0	Lead	Estimated due to MS/MSD re- covery nonconformances.
	SB-45-001	13.0	Bis(2-ethylhexyl)phthalate	*Common lab contaminant.
			Butylbenzyl phthalate	*Common lab contaminant.
	SD-45-002	0.0	SVOCs	Estimated due to surrogate re- covery nonconformances.
	SD-45-003	0.0	SVOCs	Estimated due to surrogate re- covery nonconformances.
	SD-45-004	0.0	SVOC ₃	Estimated due to surrogate re- covery nonconformances.
	SD-45-005	0.0	SVOC ₈	Estimated due to surrogate re- covery nonconformances.
SWMU NO. 47	Boiler Blow	down Wate	r	
	SW-47-001	0.0	Chloroform	Qualified as ND due to method blank contamination.

^{*} Based on professional judgment of reviewer, these data should not be used in the contamination assessment. Concentrations detected were low and not indicative of site conditions or sources. The concentrations found were most likely introduced either in the field or the laboratory. These compounds do not represent site conditions.

VOCs - Volatile Organic Compounds

SVOCs - Semivolatile Organic Compounds

MS/MSD - Matrix Spike/Matrix Spike Duplicate

RPD - Relative Percent Difference

TIC - Tentatively Identified Compound

ND - Not desected

Dup - Duplicate

TRPH - Total Recoverable Petroleum Hydrocarbons

AppendicesC-1 Through C-18

APPENDIX C-1
PIELD DUPLICATE RESULTS FOR SOIL SAMPLES

	Control						
	ij		EP-01-011			EP-01-018	
	ZF3	Original	Duplicate	RPD (%)	Original	Duplicate	RPD (%)
Depth (A.)	8	m	6		6.5	6.5	
Parameters (a)						•	
Moleture	8	12.30	12.00	7	9.10	9.20	_
2,6-DNT	8	3.51	4.63	82			
Ptenentrene	8				0.00	0.15	
Arrente	8	9.53	12.70	&	23.80	54	-
Absorbess	R	122000	109000	=	17400	14900	15
Dorfern	8	828	331		20800	22100	9
Boryffien	8	<1.00	0.82	YN	1.20	1.35	12
Calcium	8	16500	10600		15900	15500	м
Cutation	8	9.89	\$4.2	23	12.8	10.2	. 23
Cutest	8	9.53	6.01		8.15	9.32	13
Comper	8	11500	90111	*	00061	49400	
Lead	8	1230	966.00	*	53800	26200	7
	8	83300	32900		71300	48100	
Potenties	8	1500	921	na heim	1100	696 6	22
Magnesium	8	3240	1850	o our	33700	26200	22
Manganese	R	781	8	**************************************	220	330	92
Soffee	8	2470	1570		0101	208	
Notes	8	219	175	22	91	91	⊽
Anthony	R	22.40	67.6		2180	2160	_
Dis 2-shylles y Debalates	8				<0.62	3.00	NA NA
And All makes to make the makes he	4						

(a) All units in ug/g-dry weight basis

RPD = Relative Percent Difference

NA = Value Not Applicable

Shading indicates result is greater than control listit

Burgey rows indicate no data was available

APPENDIX C.1
FIELD DUPLICATE RESULTS FOR SOIL SAMPLES

	Commod						
	Link		EP-01-011 (cond)			EP-01-018 (confd)	
		Original	Duplicate	RPD (%)	Original	Duplicate	RPD (%)
Days (B.)	€	m	~		6.5	6.5*	
Parameter (2)							
)beddeler.	8				90.0	0.12	
Madhylene Chloride	8				<0.012	0.02	٧N
Tricklesoftenementers:	8				0.01	0.01	13
2 tr	2	0868	7270	21	5310	4970	7
	8	5.18	3.86	8	4.78	8.34	
Oversion	2	\$6.90	30.30		260	1.25	
Venedies	8	41.50	25.60		6.78	6.55	¥
	8				90.40	62.00	
Cymath	8	2.34	1.98	22			
Marks + Mares	8	74.20	93.30	23	4.47	9.28	a a
Postes	8	394.00	276		3\$4	×150	¥
Chief	8	389.00	485	¤	83.40	<u>5</u>	
1	8	1350.00	173	•	3960	3010	z,
7	8	9	3.80		7.10	4:00	

(a) All unds in agig dry weight basis

RPD - Relative Potent Difference

IA ... Volue Mes Asselloshie

Shading indicates seash is greater than control timit

The same for first on this case conflicts

APPENDIX C-1

PIRLD DUPLICATE RESULTS FOR SOIL SAMPLES (cen't)

0 -	10 mg		EP-01-029			SB-29-014	
	£	Original	Duplicate	RPD (%)	Original	Duplicate	RPD (%)
	£	, v n	, s) en	, m	
Permeters (4)							
Meises	R	\$2	\$	*	3.5	3.4	~
3	8	19.1	27.8		4.4	4.21	*
Arente	8	90'9	6.07	⊽	4.39	3.72	17
Atmeters	8	0889	6840	*	1400	816	i i
1	8	2	121	~	17.9	17.6	2
Paythe	2	60.50	819'0	¥			
Cubat	8	3.95	3.91				
Cuerc	8	\$	==	0	99:1	.4.61	•
1	8	7480	8	ន	2550	2430	8
Personal	R	1870	1660	72	333	238	-
Managhan	8	9910	5310	=	\$	5170	'n
Management	8	3	<u>3</u>	-	51.9	53.9	*
1	8	992	230	7	2	<u>8</u>	2
Mater	R	8.06	8. 33	6	3.31	3.67	2
The first	8	46.62	8. 52	ž			
25.0	R	61.3	53.9	13	12.3	11.8	*
Chemites	8	7.94	8.39	•	7.39	90'9	2
Ventilen	8	15.4	14.9	6	7.38	6.76 6.78	•
Calche	8	30100	26900	Ξ	57500	\$8200	-
(a) All matte in mafe dry weight beat							

APPENDIX C-1

FIELD BUPLICATE RESULTS FOR SOIL SAMPLES (con't)

	Coserol		[39-01-029 (cont.q)	
	RPD	Original	Duplicae	RPD (%)
Dope (A.)	€	w.	~	
Parameters (a)				
Phosphate	8	22	175	22
Clarke	8	1	- .9	ž
Ŧ.	8	3.1	3.3	•
Maries + Maraes	30	1.13	1.26	=

(a) All make to ug/g-dry weight basis

RPD = Relative Percent Difference NA = Value Not Applicable bading indicates result is greater than control Hari

Singry rows indicate no data was available

APPENDIX C-1
FIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con'1)

	Change in		SB-29-015			EP-01-042	
	12	Orieinal	Duplicate	RPD(%)	Original	Duplicae	RPD (%)
Dyn (E.)	€	•	. •		~		
7							
	ş	66	9.10	7	7.80	8.00	m
	R 8	9982	31.10	•	932	762	8
	8	36.3	7.79	7			
	8	200	16600	12	264000	245000	2
	8	128.00	148.00	<u> </u>	08'69	53.20	ız
	8	0.63	0.85	8			
	8	33800	28800	2	8520	7470	13
Į	8	1.15	96:0	•			
	8	403	4.68	15	4.14	3.71	=
	8	13.90	15.30	01	337	251	82
	8				932	762	8
	8	9520	11100	15	20000	16100	z
	8	2.57	3310	*	1050	22	×
	S	6580	7110	••	5 440	1830	8
	8	356	409	2	429	38 2	
	2	\$	252	8	35	50	
	8	8.29	10.90	22	16.90	14.90	13
	8				16.60	₹ .62	ź

APPENDIX C.1
FIRED DUPLICATE RESULTS FOR SOIL SAMPLES (con'1)

	Control						
	Link		SB-29-015 (cont'd)			EP-01-042 (cont'd)	
	2	Original	Depticate	RPD (%)	Original	Papitone	RPD (%)
	Ē	•	•		.	2	
3					•		
ä	8	6	09.61	2	130	101	2
	8				1.09	1.27	2
Orentes	8	14.10	15.50	6	29.70	26.30	2
Vennathern	R	17.200	18.90	6	29.30	25.60	13
Cymath	R			-	40.92	1.87	ž
White + Mente	8				381	497	92
Phosphoto	8				535	<u>~150</u>	ž
Charite	8				29.	131	23
Suffee	8				158	500	¥
4	8				. •	7.90	
101	R	40.007	10'0	ž		. •	
MOK	8	-			0.79	4.27	
	30	175	237	8			

The section of the section of the back

Mile - Beinghe Percent Difference

MA = Value Not Applicable

Mading indicates result is greater than control limit

The same that the same and the same

Man .. Then Bearmonth Detroiters Hudercachene

EP-01-045 Dupticate 3.5 331 5.20 27000 197 32700 6.24 75.30 18100 4110 8720 18.10 6.24 224 22.10 APPRIDIX C.1 TELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't) Origina 3.5 218 4.90 30500 189 33400 6.46 68.90 25100 720 720 1450 20.50 13.80 27.8 34.20 RPD (%) SB-29-021 Duplicate 10.90 19.90 9.51 6.830 2.55 14.900 9.75 6.94 10.90 16.90 16.90 Original 0 16.30 16.30 263 146000 2.73 2.73 2.73 2.73 2.73 2.73 2.74 6.54 10.10 46 11.70 3 5 €

RPT) (E)

(c) All make to apth-dry weight basis PPD - Backelon Beamer Difference	NA = Value Not Applicable Shading indicates result is greater then control limit	Empty some indicate no data was available
3	2	

APPENDIX C-1

FIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't)

	Control 1 imit		EP-01-045 (com/d)	Ş
Dage (R.)	RPD (%)	Original 3.5	Duplicate 3.5	RPD (%)
Parameters (a)				
Cadmium	8	300	3.77	23
Night + Nigrae	8	4.19	4.26	7
Phosphase	8	1150	631	
Chloride	8	286	563	7
Suffate	8	157	156	-
T.	8	630	999	\$
HDAX	2	1.39	3.18	8
RDX	8	8008	7.09	<u>E</u>
Mercury	2	0.07	<0.050	٧ ٧

(a) All units in ug/g-dry weight basis

RPD = Relative Percent Difference

NA = Value Not Applicable

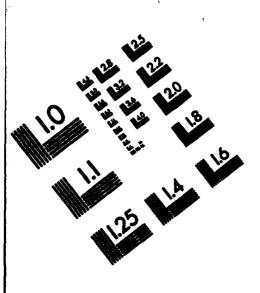
Shading fratenes result is greater than control limit

Empty rows indicate no data was available.

APPENDEX C.1
FIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con'1)

	1		EP-01-046			SB-29-010	
	2	Original	Deplicate	RPD (%)	Original	Depticate	RPD (%)
	3	· en	m		•	→ •	
Parents (8)						•	
Melana	Š	10.20	10.60	*	2.70	200	8
Lead	8	18.80	25.00	83	7.15	11.90	
Areate	8	7.60	10.6	2	4.35	5.76	23
Abrasian	8	64500	29600	**	089	178	7
	8	152	35	-	43.40	52.10	=
Devillen	8	0.92	40.500	ž			
	2	36800	38100	8	70600	75600	7
Cobes	8	8 .10	7.38	0			
Ounce	2	28.40	47.50		4.05	4.31	•
	2	36400	24100	0	2520	3680	9
Potentier	2	3780	3620	*	455	\$	9
Memorina	8	88	8510	*	0266	4 0	
Manager	8	299	3	•	73.20	6 2.30	2
Sedim	8	0801	1000	×	214	137	
Netel	8	23.40	20.10	5	3.43	4.56	8
Theffire	8	18.10	46.62	ź			
Ä	8	61.90	70,30	2	18.70	20.60	2
	8	24.60	23,00	2	8.74	7.88	2
Venden	8	26.90	25.60	~	10.30	8.88	2

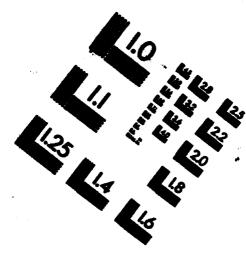
AD-A282 574 TOOELE ARMY DEPORT-NORTH AREA SUSPECTED RELEASES SHMUS 5/15 VOLUME 2 APPRENDICES A - J REVISION(U) MONTGOMERY WATSON WALNUT CREEK CA DEC 93 XA-USAEC DAAA15-90-D-0011 UNCLASSIFIED NL



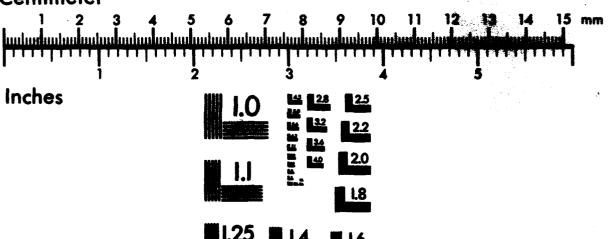


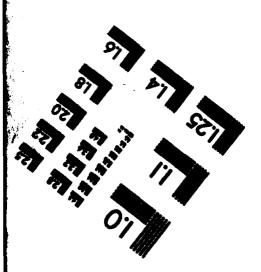
Accordation for information and image Management

1160 Wayne Avenue, Suite 1100 Silver Spring, Maryland 20910 301/587-8202

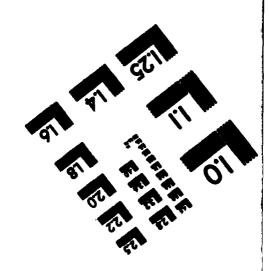


Centimeter





MANUFACTURED TO AIIM STANDARDS
BY APPLIED IMAGE, INC.



APPENDIX C-1 FIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't)

EP-01-046 (cont'd)	Original Duplicate RPD (%)		3.05	95.40	478	97.30	7 6.80 3	3.98
Constrol	RPD (%)		8	8	8	8	8	2
	Depth (A.)	Parameters (a)	Cymeide	Merte + Nitrate	Prompte	Catoride	7	RDX

(a) All tanks in ug/g-dry weight basis

RPD = Relative Percent Difference

NA = Value Net Applicable

inding indicates result is greater than control limit

inty fows indicate no data was available

APPENDIX C.1
FIRED DUPLICATE RESULTS FOR SOIL SAMPLES (con't)

	Constrol						
	Link		EP-01-047			EP-01-051	
7	25	Original	Dupticate	RPD (%)	Original	Duplicate	RPD (%)
Days (B.)	8	-	-		2.5	2.5	
Personal (a)							
Tries.	8	6.80	7.50	2	6.20	8 .10	z
Lond	8	24.20	23.20	*	130	\$0 \$	
Accorde	8	6.59	7.48	13	1.77	5.83	83
Aberican	8	14900	15600	S	14600	14300	7
	2	296.00	191.00		217	202	~
Developmen	8	1.30	0.74		0.62	<0.500	ž
Set la	2	36000	35300	2	31300	31300	⊽
Coppe	R	7.45	6.92	-	5.62	5.79	m
Сиви	8	25.10	23.70	9	130	. 981	e e e
	R	16600	15400	*	16100	17800	2
Principus	8	949	4640	*	4100	3970	е
	8	10100	0236	~	7410	7460	-
Magnete	8	557	531	~	553	S 8	•
	8	8 2	99		615	\$	-
Method	2	19.40	18.30	•	13.40	15.50	13
The first	2	1.40	4.62	¥			
A	8	57.77	2.6	6	792.00	7.56	
Committee	8	53.30	18.50		19.90	21.30	7
Variable	8	25.30	24.40	*	19.40	18.60	•

RPD a Relative Percent Difference

MA = Value Not Applicable

hading tedicates routh is greater then control it

Empty sores indicate no data was available

APPENDIX C.1
FIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't)

	Commod						
	Limit		EP-01-047 (com/d)			EP-01-051 (cont'd)	(
	C.N	Original	Duplicate	RPD (%)	Original	Duplicae	RPD (%)
Days (A.)	2	e	m		2.5	2.5	
Permers (2)							
Continue	8				20:20	26.20	8
TOTAL STATE OF THE	8	55.20	33.20	e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	12.40	8.26	
	8	4.82	5.32	2	€0.666	0.86	ž
Medis + Ments	8	1.62	2.33	e e e e e e e e e e e e e e e e e e e	0.93	1.11	8 2
People	8	9	382	*	929	332	
Cheste	R	6.90	10.00	isto.			
Ť.	8	8.20	7.30	12	7.40	6.80	•••

UD - Relative Pe

KA - Value Net A

APPENDEX C.1

FIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't)

	Link		28-23-E21			SB-29-028	
	250	Original	Duplicate	RPD(%)	Original	Duplicate	RPD (%)
Days (R.)	£	•	•		~	•	
Personn (2)							
	8	2.30	2.70	2	8.20	11.60	
	8	331	2.84	22	3.46	1.52	 9
Accord	8	3.03	2.62	22	16.1	7.18	2
N. C. C. C. C. C. C. C. C. C. C. C. C. C.	8	106	876	Ф.	729	380	
	8	36.60	30.50	=	77	য়	•
Colision	8	23800	2009		37100	33300	=
	8	1.93	2.07	7	1.1	40.965	¥
	8	1700	1870	2	1480	877	
Personal	8	72	202	2	210	~ 001>	¥
	8	3460	4570	83	2060	3220	e e e
Manage	8	48.90	58.30	=	31.10	21.70	,
	8	17	130	8	178	6	¥
	8	2.38	3.38				
2000	8	10.80	58.6	•			
Champion	8	5.63	6.38	12			
	8	2.67	6.77	=	4.80	4.15	15
	8				4.67	3.13	
Die Cachyfhenyflyfiebelen	8				3.80	6	ź

(4) All make in myly-dry weight heate
RFD = Reduline Percent Difference
RA = Value Net Applicable
Stading indicates rough is greater than control
Empty some indicate no data was available

PHELD DUPLICATE RESELTS FOR SOIL SAMPLES (con't)

EP-01-054	Duplicate RPD (%)	*		16.90	354	5540	8		17300	25.70	2.72	152	7610	1160	2990	<u> </u>	319	19.90	=	33.80	11.60
	Original 2		40.5	21.50	3.12	5270	=		14100	27.00	2.37	19 2	7310	9	2500	<u>%</u>	265	20,30	167	26.80	11.50
	8 0 (8)		M		z		2		⊽		*	22	8	22	•	~		=	9		23
EP-01-053	Daylese 3.5		11.10	113,00	7.47	135000	152	0,63	35600		7.25	17.50	14300	8	HOSE	35	1790	17.00	30.00	39.60	22.70
	Original 3.5		10.80	21.90	5.98	00071	3	97. 1	35700		7.58	19.80	17900	204	11300	5	02/1	18.70	32.50	21.40	2
Change	€€		8	8	8	8	8	**	A	8	***	*	*	8	8	8	8	8	8	8	9
	3	3	1	3	4													1			

APPENDEX C-1
FIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con's)

			EP-01-053 (comt.d)			EP-01-054 (cont'd)	
3	€ €	35	Dayllone 3.5	RPD (%)	Original 2	Duplicae 2	RPD (%)
	***	75.00 2250 442.00 6.50	75.30 347 2160 479.80	20 1- 48 40	2.08 2.26 4.88 8.20 7.20	<0.92 25.10 <150 7.80	₹ n →

64 All mains in marks dry tradight banks 1840 - Radiales Passant Distrement 1844 - Valles Nes Application Standay indicates scenal in greater them control in

APPENDIX C.1 FIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't)

	Control						
	Limit		SB-29-031			EP-01-055	
	RPD	Original	Duplicate	RPD (%)	Original	Duplicate	RPD (%)
Depth (ft.)		•	0		۰	S	
Parameters (n)							
Moleture	8	6.20	5.70	••	4.00	3.90	m
Lead		19.60	19.50	-			
Arsenic		7.68	7.38	•	2.23	2.17	9
Aberiens	8	11000	7740		2230	0091	
Porter		158	158	⊽	97.10	65.90	
Boryffee		75.0	∆0.5	ž			
Calcium		20066	38100		12900	32800	
Cartesian					1.32	0.85	
Cobet		3.99	3.53	12			
Compar		10.50	10.50	~	2340	74.40	
.		10000	8200	ଯ	4640	3760	21
Potensham		3640	2840	જ	208	397	22
Magnesian		946	8780	7	2250	2310	8
Mangantos		373	395	•	69.30	75.50	0
Sedim		385	328	92	222	212	S
Nichel	8	10.20	8.74	15	4.50	2.32	
2hc	•	57.70	51.90	=	1260	60.50	
Chromiten	8	12.90	9.72	28			
Varefless	•••	19.30	14.70	11	6.12	5.68	7
(a) All mains in agig-dry	velght basis						
RPD - Relative Percent	Difference						

Empty rows indicate no data was available

PHELD DOPESCATE RESULTS FOR SOIL SAMPLES (con'i)

	Onesed		CB.20.031 (com/d)			EP-01-055 (cont'd)	·
Park (6)	£ €	Origina o	Duplicate 0	RPD (%)	Original S	Duplicae 5	RPD (%)
Pageores (4)							
	2222	462	10.20	£	0.65 196 8.30	0.58 448 8.10	

(c) All ands in agin, dry weight back
1970 - Raindro Percent Difference
18.4 - Value Net Applicable
28-allog indicates result is preser than control for
18-allog indicates to deta was available

APPENDIX C.1

	FIELS	TELD DUPLICATE R	RESULTS FOR SOIL SAMPLES (con't)	OIL SAMPL	ES (com't)		
	Control						
	Link		EP-01-056			EP-01-059	
	RPD	Original	Duplicate	RPD (%)	Original	Duplicate	RPD (%)
Depth (A.)	£	7	8		•	•	·
Promoters (a)							
Moleure	8	7.60	7.50	9449	2.10	2.00	~
Lend	æ	8.59	8.15	×	40.20	42.20	~
Arrente	æ	2.79	2.85	7	4.06	3.91	4
Atmitem	8	0291	1530	7	8110	7400	6
Darken	æ	58.10	\$6.50	6	Ž	8	•
Calctum	8	18000	22700	ឧ	26800	30900	=
Cutation	R	151	1.74	=	3.54	3.72	'n
Cobet	8				2.84	2.05	
Cupper	8	88.20	5	2	9.60	99.09	7
Pros	8	5290	4610	=	9370	7650	8
Potenties	8	289	25	~	0.81	1800	₹
Magnesium	8	2040	2310	22	4500	2540	21
Mangament	R	72.00	78.80	6	157	<u>8</u>	-
Soften	8	730	765.00	~	323	300	*
Nichel	8	3.60	3.38	•	3 .7	7.13	<u></u>
Zinc	8	20.00	51.80	*	254	Ĭ	23
Chromien	8				11.60	9.90	91
Vanadium	8	6.31	5.05	77	11.80	11.80	⊽

(a) All units in up/g-dry weight basis

RPD - Relative Percent Difference

NA = Value Not Applicable

Shading indicates result is greater than control limit

many sows indicate no data was available

APPENDEX C-1

PHELD DUPLICATE RESULTS FOR SOIL SAMPLES (con'1)

	Control		EP-01-056 (com/d)			EP-01-059 (com(d)	
Days (B.)	£ £	Original 2	Duplicate 2	RPD (%)	Original 0	Dupticate 0	RPD (%)
Parameters (4)							
1.3-Diebrokonene	8				9.0	09'0	1
24-DOTT 6.W12)	2				3.52	40.424	¥
24-UT	2	•			4.95	2.48	
BCK	2				22.70	25.70	12
RDK	8				75.30	081	
13570	2				28.90	S6.90	
246-THT	R				823	492	
	2	2.28	4.52	ž	2.57	6.30	
Marte + Meras	8				15.40	13.30	15
Phosphon	8	ĭ	238	ଛ	614	ä	
Christ	2	308	319	*	9.60	6.90	4
4	8	8.30	8.80	•	999	999	▼

(a) All unio in mg/g-dry vedgite basis RFD = Holanivo Percent Difference NA = Value Met Applicable

balling indicates resent is greater then control limit

Anne come bullcule and date were profitable

APPENDIX C-1

		FIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't)	AFFEMBLA C-1 ESULTS FOR SA	ME SAMPI.	ES (con't)		
	ð						
	Limit		EP-01-061			SB-26-004	
	RPD	Original	Duplicae	RPD (%)	Original	Duplicate	RPD (%)
Days (R.)	&	4.5	4.5		-	-	
Parameters (A)							
Mohimo	.	7.20	7.60	8	6.70	6.20	65
Lond	8	30.40	30.20	-	35.60	74.60	
Assemb	8	4.02	6.65		7.73	\$ 9.06	16
Absolum	8	5730	8270		\$670	6210	•
Porter		90.40	95.80	•	68.20	73.70	•
Boyfflen	8	<0.500	0.86	ž	0.60	0.61	2
Catchen	8	22400	23000	•	7710	18000	
Cutuatura		99.1	1.97	73		•	
Cobet	•	3.55	3.22	9	2.79	2.53	2
Copper		137	86		15.40	15.00	ю.
1		9666	14000		6580	0159	-
Person	8	991	960	_	1760	1760	₹
Magnesites		4520	2160	2	3040	3620	17
Manganese	8	777	258	=	226	216	8
Soften	•••	877	797	14	727	275	6
Michel	•••	9.61	13.10		\$9.9	6.05	•
2kc	8	2	245		44.80	45.60	7
Oversion	8	8.99	11.10	23	9.12	9.75	7
Venedien	8	11.70	13.20	12	10.40	11.00	•

(a) All units in up/g-dry weight back

RPD - Relative Percent Difference

NA - Value Not Applicable

Shelling indicates result is greater than control Healt

hanty sows indicate no data was available

APPENDIX C.1

PIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't)

	Control			
	Limit		EP-01-061 (cont.8	
	RPD	Original	Duplicate	RPD (%)
Depth (R.)	£	•	0	
Parameters (a)				
Cyamide	8	40.92	191	ž
Marks + Nitrate	8	2.42	2.40	,
Pacepted	8	‡	901	3
五	8	7.20	7.20	⊽
HOCK	8	0.97	1.18	2
RDX	8	6.17	28.00	
1,3,5-TNB	8	1.06	0.81	8
2.4.6-TNT	8	11.90	4.63	
Teary	8	40.731	0.81	۲×
,				

(a) All units in ug/g-dry weight basis

RPD = Relative Percent Difference

NA = Value Not Applicable Stading indicates result is greater than control limit

Empty rows indicate no data was available

APPENDIX C-1

PRELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't)

	Commod						
	ij		EP-11-064			SB-26-011	
	22	Original	Duplicate	RPD (%)	Original	Duplicae	RPD (%)
Dapa (A.)	£	0.5	0.5		-	-	
Parameters (ii)							
Meister	2	4.60	200	••	8.50	8.50	⊽
Lond	8	366	418	8	8.41	19.6	13
Armenic	8	4.00	4.48		3.01	3.28	6
Amina	8	2640	4150	8	7160	7010	7
1	8	123	119	e	06.79	73.10	7
	2	<0.50	0.84	X			
Catal	8	27100	16900		2390	2580	∞
	8	3.91	3.38	15			
1	8	2.46	2.17	13	2.90	3.33	<u> </u>
0	8	52.40	53.00	-	7.08	8.33	2
	8	8400	2390		7230	7680	9
President	8	2110	1730	82	1960	2020	*
	8	4220	3360	23	2660	2720	7
Management	8	261	162	91	218	242	2
	8	308	260	17	385	,374	e
Section 1	8	6.30	5.45	2	7.45	7.98	7
2	8	2. 00	95.00		36.90	44.20	<u>=</u>
Company	8	12.50	19'6	×	11.10	11.10	⊽
V. market	8	12.40	8.05		11.70	12.80	6
The Shandard and the same	8				<0.00€	0.01	٧٧
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a la la la la la la la la la la la la la					-	

(a) All units in ug/g-dry weight backs

RPD = Relative Percent Difference

NA = Value Not Applicable

Shading indicates result is greater than control limit

Empty sows indicate no data was available

APPENDIX C.1 FIRED DUPLICATE RESULTS FOR SOIL SAMPLES (con'1)

	Constrol		EP-01-064 (contd	
Days (A.)	6 €	Original 0.5	Dapticate 0.5	RPD (%)
Parameters (4)				
Marks + Marks	8	3.10	3.78	8
Pauples	R	436	27. 30	See
T	8	7.30	6.90	•
Merchenene	8	8.35	8.28	-
KOX	8	2.73	40.587	ž
1,3,5-TNB	8	20.50	18.40	=
2.4.6-TNT	8	282	233	2

APD - Relative Percent Di

APPENDIX C-1

FIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't)

	Commence						
	Limit		EP-01-068			EP-01-069	
	RPD	Original	Duplicate	RPD (%)	Original	Duplicate	RPD (%)
Days (R.)	£	•	'n		5.5	5.5	
Promoters (s)							
Meltero	8	4.20	3.30	24	4.50	4.70	~
Lead	8	6.73	5.19	28	3.44	4.90	
Arrente	8	9.37	3.08		2.10	2.69	22
Alternham	8	2060	1420		0161	0181	s
Derfere	8	72.50	62.80	7	68.30	73.70	80
Beryllian	8	0.61	<0.500	ž			
Cutchen	2	32100	17600		26500	26200	
Outestee	8	1.71	1.56	13	1.18	1.14	m
Mercay	8	<0.0>	90'0	ž	90.0	0.09	
Cupper	8	122	9 61		09.76	97.70	⊽
For	8	5370	4520	17	4220	3640	15
Pennstern	8	558	357		S79	492	92
Manneton	8	2580	961	11	3610	3240	=
Management	8	Z	8	8	72.50	72.30	7
Soften	8	326	Ħ		892	256	s
Metal	8	5.61	4.20	83	4.27	4.36	7
Zhe	8	61.00	57.70	9	55.50	\$6.00	-
Orenten	8	6.65	200	82	4.85	4.93	7
Venedium	8	6.23	€.5	ž	6.58	2.00	22

(a) All units in up/g-dry weight basis

RPD = Relative Percent Difference

NA = Value Not Applicable

Shading indicates result is greater than control limit

Bugity sows indicate no data was available

APPENDIX C-1
FIRE DUPLICATE RESULTS FOR SOIL SAMPLES (cen't)

	C S		(P) Was (conf.q)			EP-01-069 (com/d)	
Date (R.)	€ €	Ortginal 2	Duplicate 2	RPD (%)	Origina O	Duplicate 0	RPD (%)
	88	321	351.00	• 8	124.00 8.00	\$20 \$20	~

APPENDIX C-1 FIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't)

	Consti						
	Link		EP-01-070			SB-45-001	
	-	Original	Duplicate	RPD (%)	Original	Duplicate	RPD (%)
Days (A.)	8	æ	m		6	•	
Parameters (4)							
	*	4.80	490	2	20.90	20.30	
	2	7.11	6.89	•	5.53	5.98	**
Armele	2	2.73	2.71	-	5.45	5.65	4
A THE	2	0/91	1780	•	6930	7710	2
•	2	92.20	90.00	2	58.90	60.50	6
1	2	<1.42	253	۲×	3.57	3.14	2
	2	30200	23300	%	68700	63800	-
	8	7.1	1.50	8			
Mercary		60:0	000	23			
	•	77.30	98.70	2	8.03	7.59	•
	8	3550	22000		9370	0668	•
	•	393	432	•	2080	2180	8
	2	2630	3110	17	57 30	8290	7
	2	74.70	222		210	161	•
	2	214.00	214	₹	3 2	757	*
	2	4,46	8.21		3 .6	9.90	⊽
7	2	99.50	63.60	7	36.30	35.90	_
	2	16.7	14.20		13.30	14.50	•
V	8	5.24	425	21	20.10	20.00	⊽

(b) All ambs to agig-dry melgit back

RPD - Relative Percent Difference

MA = Value Not Applicable

Market in Server send is proster than control limit

Empty rows indicate no data was available

APPENDEX C.1

4	FIRE	DUFLICATE	RESULTS FOR SOIL SAMPLES (con't)	DIL SAMPL	ES (cen't)		
),	Operate						
1	1		SB-42-003			SB-42-009	
	252	Original	Duplicate	RPD (%)	Original	Depticate	RPD (%)
Dayle (R.)	3	•	0		~	7	
Parameters (4)							
Mohenn	2	5.30	5.90	=	3.70	3.70	⊽
787	8	53700	31100		16.90	24.10	
Assents	R	14.80	6.59		5.71	6.62	15
Aberten	8	8510	9780	*	1710	2610	(5)
	8	1570	1310	13	57.50	55.70	е
	8	164	0.72				
3	8	10.40	334				
Cheffe	2	30900	26500	15	71500	00569	6
Contract	R	4.30	26.60		-		
Commen	2	19600	200	3	5.75	7.93	
1	8	00999	20401	***	2600	3360	8
	2	1460	1740	2	12	5	
	R	2360	2130	•	3190	9	ឧ
	R	13	*	`	97.18	92.50	12
	8	247	5		213	111	
3	8	26.78	12.60		4.19	4.53	•
	8	3520	2600		22.60	20,00	12
	2	21.30	16.70 57.20	7	6.05	\$97	
Vensiles	2	6.09	12.20		7.20	10.30	

6) All underlerungly-dry melgist basis 1970 - Radiatos Puerest Difference 1984 - Vistos Hen Applicatio Smaller indicates ment in greater than control in Smaller says Indicate to date was conflicted APPENDIX C-1 PHR, D BAPLICATE RESULTS FOR SOIL SAMPLES (con't)

	RPD (%)	
SB-42-003 (cont'd)	Dapticate 0	410 42.00 16.80
	0.00	674 61.80 34.80
Control	€ €	222
Control	Dopte (A.)	Parameters (4) Assistancy Thefice Silver

(a) All make in up/p-dry weight basis
pp/D = Relative Percent Difference
NA = Value Not Applicable
Stading indicates result is greater than control is

APPENDEX C.1

FIRED DUPLICATE RESULTS FOR SOIL SAMPLES (con't)

Company Comp		Comprof						
(%) Original Diplicate RPD (%) Original Diplicate (%) 0 0 0 0 0 0 0 30 5.70 6.00 5 790 1310 0 0 0 30 4.33 5.12 17 19.40 27.50 2320<		7		EP-01-087			SS-42-005	
(%) 0 0 0 0 30 5.70 6.00 5 790 1316 30 4.33 5.12 17 19.40 27.50 30 2.40 204 16 3780 27.50 30 2.40 204 16 3780 27.50 30 2.60 204 183 2.6 27.50 30 2.60 2.20 4.23 9 2.04 2.82 30 2.60 2.20 4.23 9 2.04 2.82 30 1.27 1.33 5 1.57 2.14 30 1.27 1.33 5 1.57 2.14 30 1.65 1.69 2 53.70 67.10 30 2.770 3070 10 1030 1410 30 3.40 3.56 7 110 2.04 30 10.70 11.30 9 5.02		OF R	Original	Depticate	(S) GA2	Original	Depticas	RPD (%)
30 5.70 6.00 5 790 1310 30 4.33 5.12 17 19.40 27.50 30 4.33 5.12 17 19.40 27.50 30 2.40 2.04 13.00 23.20 30 2.40 2.04 2.04 2.82 30 2.20 4.23 9 2.04 2.82 30 2.20 4.23 9 2.04 2.82 30 2.20 4.23 9 2.04 2.82 30 1.27 1.33 5 1.57 2.14 30 1.65 1.69 2.00 2.00 2.00 30 2.770 3070 16 300 14.10 30 3.49 376 7 167 2.04 30 3.40 378 4 11.0 2.61 30 10.20 11.30 2 94.10 115 30 <th>Date (S)</th> <th></th> <th></th> <th>•</th> <th></th> <th>•</th> <th>•</th> <th></th>	Date (S)			•		•	•	
30 5.70 6.00 5 790 1310 31 4.33 5.12 17 19.40 27.50 30 2.40 2.64 16 183 2.55 30 2.40 2.64 16 183 2.56 30 2.40 2.64 1.63 2.64 2.82 30 2.260 2.260 2.26 2.26 2.82 30 2.260 2.260 2.13 3 2.64 2.82 30 1.27 1.33 5 1.57 2.14 30 1.65 2 2.370 67.10 30 1.69 2 2.370 67.10 30 2770 3070 16 32.30 4.220 30 2770 3070 16 32.30 4.220 30 3.40 3.53 4 110 2.61 30 111.00 113.00 9 5.22 6.10 <th>Persona (1)</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Persona (1)							
33 136 790 1310 34 433 5.12 17 19.40 27.30 30 6690 8040 16 183 226 30 0.76 0.74 3 2.04 2.85 30 0.76 0.74 3 2.04 2.85 30 2.8600 2.36 4.23 9 2.04 2.82 30 1.27 1.33 5 1.57 2.14 30 1.27 1.33 5 1.57 2.14 30 1.27 1.33 5 1.57 2.14 30 1.65 36.00 67.10 67.10 30 2770 1030 1410 67.20 30 3.06 6 3290 4.220 30 3.40 3.53 4 110 261 30 11.30 2 94.10 113 30 11.30 2 94.10	Title .	Я	8.3	83	*			
38 4.33 5.12 17 19.40 27.30 30 240 204 16 183 256 30 240 204 16 183 256 30 3.85 4.23 9 2.04 2.42 30 25600 23600 <1		8	1350	8		26	1310	
30 6600 8000 16 3780 5320 30 240 204 16 183 256 30 240 204 16 183 256 30 240 204 16 183 26 30 2560 2560 2040 2040 30 163 2 53.70 67.10 30 163 2 53.70 67.10 30 2770 3070 16 360 7290 30 2770 3070 16 3290 4220 30 349 376 7 167 204 30 340 376 7 167 204 30 11.70 9 5.02 6.10 30 11.30 9 7.71 11.50 30 11.30 9 7.71 11.50 30 11.30 9 7.71 11.50		2	433	5.12	17	19.40	27.50	
30 240 204 16 183 256 30 0.76 0.74 3 2.04 2.82 30 2.860 2.860 2.82 2.04 2.82 30 1.27 1.33 5 1.57 2.14 30 1.65 1.69 2 2.04 2.14 30 1.67 1.33 5 1.57 2.14 30 1.65 1.57 2.14 2.14 30 1.65 2.60 7.20 30 2.770 3070 10 1030 1410 30 2.770 3070 10 1030 1410 30 3.40 3.76 7 167 2.04 30 3.40 3.53 4 110 2.61 30 10.70 11.30 9 5.02 6.10 30 10.30 11.30 9 7.71 11.40 30 11.30	Į.	8	0889	90	2	3780	5320	,
30 0.76 0.74 3 2.04 2.82 30 22600 20600 2.04 2.82 30 1.27 1.33 5 1.67 2.14 30 1.57 1.33 5 1.57 2.14 30 1.57 1.33 5 1.57 2.14 30 1.50 1.69 2 30.70 67.10 30 2770 3070 16 160 7290 30 250 6 3290 4220 30 376 7 167 204 30 340 375 7 167 204 30 340 353 4 110 261 30 111.30 9 5.02 6.10 30 111.30 9 7.71 11.30 30 14.50 12 9.72 14.80	1	8	240	\$	2	183	9 22	
30 3.65 4.23 9 2.04 2.82 30 1.27 1.53 5 1.57 2.14 30 1.65 1.69 2 53.70 67.10 30 8370 9000 16 560 7290 30 2770 9000 16 560 7290 30 2770 9000 6 3290 4220 30 340 376 7 167 204 30 340 353 4 110 261 30 11,70 9 502 6,10 31 10,30 11,30 2 94,10 115 30 11,30 2 94,10 115 30 11,30 2 94,10 115 30 11,30 2 94,10 11,50 30 11,20 9 7,71 14,80		8	9.0	27.0	•			
30 23600 23600 <1		8	3.85	423	•	2.04	2.82	
30 1.27 1.53 5 1.57 2.14 30 8370 900 16 560 7290 30 2770 3070 16 560 7290 30 2770 3070 16 560 7290 30 6540 6930 6 3290 4220 30 349 376 7 167 204 30 10.70 11.70 9 5.02 6.10 30 111.00 113.00 2 94.10 115 30 10.30 11.30 9 7.71 11.80 30 10.30 11.30 9 7.71 11.80	Catalon	2	28600	28600	7	13900	20400	x
30 165 169 2 53.70 67.10 30 2770 3070 16 5660 7290 30 2770 3070 16 1030 1410 30 6540 6930 6 3290 4220 30 340 353 4 110 261 30 11,70 9 502 6,10 30 11,30 2 94,10 115 30 11,30 2 94,10 115 30 11,30 2 94,10 115 30 11,30 2 97,2 14,50	Cutation	8	1.23	1.33	~	1.57	2.14	
30 8370 5660 7290 30 2770 3070 16 1630 1410 30 6540 6930 6 3290 4220 30 340 376 7 167 204 30 10.70 11.70 9 5.02 6.10 30 10.70 11.30 2 94.10 11.5 30 10.30 11.30 9 7.71 11.80 30 10.30 11.30 9 7.71 11.80	0	**	390	ž	7	53.70	67.10	z
30 2770 3070 10 1030 1410 30 6540 6950 6 3290 4220 30 340 353 4 167 204 30 10.70 11.70 9 5.02 6.10 30 111.00 113.00 2 94.10 115 30 10.30 11.30 9 7.71 11.80 30 12.20 14.50 12 9.72 14.80		•••	8370	99	2	3660	7290	22
30 6540 6950 6 3290 4220 30 340 353 4 110 261 30 10.70 11.70 9 5.02 6.10 30 111.00 113.00 2 94.10 115 30 11.30 9 7.71 11.80 30 14.50 12 9.72 14.80	Potentier	2	2770	3070	2	1030	1410	
30 349 376 7 167 204 30 10.70 11.70 9 5.02 6.10 30 111.00 113.00 2 94.10 115 30 10.30 11.30 9 7.71 11.80 30 12.90 14.50 12 9.72 14.80	Menutes	8	6540	066	•	3290	4220	Ŋ
30 353 4 110 261 30 10.70 11.70 9 5.02 6.10 30 111.00 113.00 2 94.10 115 30 10.30 9 7.71 11.80 30 14.50 12 9.72 14.80		8	£	378	7	167	ž	8
30 10.70 11.70 9 5.02 6.10 36 111.00 113.00 2 94.10 115 30 10.30 11.30 9 7.71 11.50 30 12.80 14.50 12 9.72 14.50		R	2 6	353	•	2	<u> </u>	
30 111.00 113.00 2 94.10 115 30 10.30 11.30 9 7.71 11.80 30 12.80 14.50 12 9.72 14.80	1	R	10.70	27.11	•	2075	6.10	2
30 10.30 11.30 9 7.71 30 12.80 14.50 12 9.72	98	8	9711	113.00	7	2.2	115	8
TO 12.00 14.50 12 9.72	Chemites	8	10.30	32.30	•	1.71	0711	si
	Verafies	8	12.80	14.50	2	27.6	14.80	

(a) All caries in aging dry meight bank

1970 - Beliefes Pourse Difference

MA = Visios Mes Applicable

nating indicates result is greater than control its

the same a farificate on their was evaluable

APPENDEX C-1 FIRE D DUPLECATE RESULTS POR SOIL SAMPLES (con'1)

	Control						
	Link		EP-01-067 (confd)			SS-42-005 (com/d)
	CEO.	Original	Dapticate	(S) G.R	Original	Depticate	RPD (%)
3	2	•	•	,	•	•	
Patients &							
24-Deft (LW12)	8	S.49	2.47				-
	8	69'0	0.74	7			
Matte + Marse	8	0519	55.10	=			
	8	\$12	121	82			:
	*	20,80	42.20	2			
•	8	261	2	2			
-	8	7.20	998	==			
					<7.14	16.20	ž
					46.62	8.61	₹ Z
į					40.92	1.12	ž
, t t.							

APPENDEX C-1 FEELD DUPLICATE RESULTS POR SOIL SAMPLES (con'1)

		25-26-019 Daplicae 0	(S) (MA		SS-26-025	
		Depticate 0	PP (S)			
		•				202
	3.20			•	•	
	3.20					
		2.60	23	7.00	6.70	*
	44.20	42.20	~	20.10	21.60	7
Americ	sx	5.11	•	5.31	4.66	13
Atmitters	4030	24.50	2	1850	1250	ĸ.
8	62.20	58.90	×	217.00	30.80	
Cache	40160	39700	-	00/0/	00989	•
Cohe	86.	1.65	2			
8	15.60	17.40	=	8.25	7.11	5
2	2340	4730	=	2860	2590	=
8	1350	1110	53	98	418	
	428	929	2	2610	88	*
38	151	156	-	85.80	84. 20	7
8	%	282	ถ	592	145	
2	7.7	6.72	2	4.36	4.55	•
25ee	51.50	51.30	⊽	30.80	22.90	83
8	12.80	10.90	2	8.99	7.7.	<u>.</u>
8	10.70	7.6	2	8.	6.87	23

RFD a Relative Passant Difference

APPENDÍX C-1
THELL TOTTE BESTILTS ROP SON, SAMPLES (cont.)

Lienk RPD Dopth (R.) (%) Parameters (s)	Original S	EP-01-082			EP-01-094	
•	Original S	- N- W				
	5		· RPD (%)	Original	Duplicate	RPU (%)
		8		*	•	-
	05:1	11.40		14.70	4.50	
	976	10.30	7	23.10	\$68	a sana di
	5.89	5.93	_	7.23	3.82	bul
	9010	6370	23	15800	11300	
	<u> </u>	75	7	274	9 02	87
	1.17	0.72		1.81	1.42	24
	4.52	4.20	7	6.47	6.21	*
	27600	64200	=	40400	37300	•
				40.700	0.97	ź
	19.6	8.60	12	67.00	48.80	31
	9850	8260	==	15700	12300	*
	2870	2300	22	4720	3620	92
	8350	7670	•	10300	8540	6
	218	38	2	478	422	12
	372	377	-	433	362	<u>~</u>
	11.30	9.34	5	19.70	15.10	%
	34.10	30.10	12	102.00	79.80	*
Oceanites 30	09'01	18.80	PS.T	18.50	13.60	
	20.30	16.40	21	25.80	20.40	23

(a) All units in up/g-dry weight bests

RFD . Relative Percent Difference

MA = Value Not Applicable

Sheding indicates nearlt is greater than control limit

Smary spen indicate no data was available

APPENDEX C-1

THE T	DUFLICATE	RECULTS FOR SOIL SAMPLES	DIL SAMPLES (c	(),
	Control			
	Limit		EP-01-094 (cner'd)	
:	RPD	Original	Dupticate	RPD (%)
Days (A.)	£	•	•	
Parameters (s)				
Mercury	8	600	900	13
2,4-DNT (L.W12)	8	42,424	10.60	¥
XQX	8	A.387	4.90	ž
Merts + Merate	8	20.60	38.80	92
Phosphate	8	376	\$	8
Calculate	8	25.90	21.40	6
T.	8	978	8.60	⊽

(a) All units in ugig-dry weight basis RPD = Relative Percent Difference

NA - Value Not Applicable

Empty sows indicate no data was available

APPENDIX C-1

		HELD DUFLICATE RESULTS FOR SOIL SAMPLES (con't)	RESULTS FOR S	OIL SAMPI	.ES (com't)		
5 1	Consess		SS-26-034			010-61-88	
	2	Original	Duplicae	RPD (%)	Original	Duplicate	RPD (%)
Det (B)	€	₩.	ss.		so.	S	
Parameters (a)			,			•	
Mediano	8	3.70	3.90	8	1.80	9:00	
Long	8	32.30	32.90	7	6.81	6.23	6
Accepto	8	19.9	5.80	=	2.57	5 ,0	
Alembres	8	3070	3370	6	3680	4120	=
	8	\$0.80	50.40	,	71.00	74,20	7
Creat	8	202	<1.42	ž	2.30	2 53	2
Culcium	8	35700	4100	77	3920	3990	7
Custom	8	1.47	1.82	77	1.76	1.55	13
Comme	8	10.90	11.70	~	7.49	8.20	→
	8	4080	2000	8	\$430	2690	8
Pottenties	8	573	1030	•	1180	1300	2
Magnesium	2	4560	240	2	96	2140	2
Mengement	8	142	391	25	162	174	7
Soften	8	229	951	2	181	187	m
Nete	8	5.65	3.65	⊽	5.10	.52	2
75	8	2.4	22.00	S	36.00	38.50	7
Chromber	2	8.87	10.00	22	5.04	5.14	7
Van V	8	7.90	9.24	2	6.45	7.19	400 1015

(a) All units in agig-dry weight basis
RFD = Relative Percent Difference
NA = Value Not Applicable
Shading indicates result is greater than control limit
Hamily sows indicate no date was available

APPENDIX C-1

FIELD	DUPLICATE	results for Sc	FIELD DUPLICATE RESULTS POR SOIL SAMPLES (con't)	0,0
	Control		SS-19-010 (com'd)	
Dopta (R.)	RPO (§)	Onigina O	Depticate 0	RPD (%) .
Parameters (a)				
Pyene Prosplete pH Trickloroflesromethere	222	1.60 251 7.60 40.006	1.60 7.60 10.0	⊽ ₹

(a) All units in units-dry weight basis
RPD = Relative Percent Difference
NA = Value Not Applicable
Shading indicates result is greater than control limit
Empty rows indicate so data was available

APPENDIX C-1
FIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't)

	_		,				
	Link		SS-20-001			SD-45-003	
	ŀ	Original	Duplicate	RPD (%)	Original	Duplicate	RP() (%)
Daph (A.)	€	•	0		0	•	
Parameters (a)							
Molitims		5.90	5.90	⊽	32.50	9.90	(1)
Los	8	Ř	839	9	88.70	51.00	
Arrenic		8.02	8.03	7	14.00	7.32	
Aberiese		6240	4380		410	2340	-
Berten		71.90	75.80	~	53.80	30.00	
Beryllian		1.02	0.89	=			
Cobes		5.26	4.65	12			
Chicken		29000	19500		38800	21400	
Custosium		21.60	20.70	4	1.39	40.700	٧X
Cases		2480	132		31.00	15.80	
		43800	42500	60	48800	2820	
Potassium		110	903	77	1420	715	
Mercelus		2750	2490	2	8370	3120	
Manganese		259	231	11	80.10	40.30	
Soffee		145	245		423	320	19
Zite.		29.50	25.00	11	7.91	3.53	
Zlec		1750	676		92.90	91.19	e de la companya de l
Chromiten	-	50.20	45.00	=	18.90	7.85	esseries esseries esseries
Vanadium		10.10	5.92		13.00	7.49	. *

(a) All units in up/g-dry weight back

RPD = Relative Percent Difference

NA - Value Not Applicable

Shading indicates result is greater than control limit

Empty sows indicate no data was available

APPENDEX C-1

CATE RESULTS POR SOIL SAMPLES (com'1)

	Constitution		SS-20-001 (courtd)			SD-45-003 (cont'd)	
D## (8.)	€ €		Depticae 0	RPD (%)	Original 0	Duplicate 0	RPD(%)
	222	16.90	11.00	ž	12.20 <0.0008 0.01	8.60 600 100	{ {}
	222	•	*		0.03 0.03 0.03	2223	8 ⊽

APPENDIX C-1
FIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't)

	riel	DUCELLAIR	ESOLIS FOR SO	THE STATE	JESS (COM 1)		
	Control					300 00	
	Link		SS-20-012			SS-21-005	
	RPD	Original	Duplicate	RPD (%)	Original	Duplicate	RPD (%)
Depth (ft.)	%	•	0		•	0	
Medianne	8	1.20	1.30	66	2.40	2.50	~
[Feed	æ	2540	912		1350	3970	
Arsenic	æ	6.50	5.60	55	7.43	8.90	8
Abuniana	8	3590	3290	6	7360	10500	
Derivation of the second	8	861	188	~	429	240	23
Dervillen	8				0.88	<0.500	¥
Cobes	30	2.05	2.09	7	2.21	3.35	
Calcium	æ	27900	34100	ଛ	39400	42900	6
Catains	8	8.10	5.98	æ	495	101	
Conner	8	911	131	12	193	708	
	æ	0689	0689	⊽	19000	25400	8
Potescelum	æ	868	738	8	3570	4880	
Marmester	8	3370	2940	=	2050	6510	22
Managenero	æ	145	146	-	5	202	8
Soften	8	281	38 2	~	753	1050	
させた	æ	6.82	8.21	8 2	5.37	7.19	29
2000	8	393	38	23	2 5/	1370	
Organies	8	8.62	19.10		0992	1100	
Vanadium	æ	8.52	7.18	11	9.84	12:00	8

(a) All units in ug/g-dry weight basis

RPD = Relative Percent Difference

NA = Value Not Applicable

Stading indicates result is greater than control limit

Empty rows indicate no data was available

APPENDIX C.1

PIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't)

Limin SS-20-012 (conf.6) SS-21-005 (conf.6)	MY2) 30 Original Dupticate (%) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RPD (%)		ä
National Papilicate NPD (%) Original Daylicate NPD (%) O	W12) 30 Original Duplicate W12) 30 0 0 30 30 30 30 30 30 30 30 30 30 30 30 30 3	RPD (%)		
(%) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		· \$		22 0 2 4
W12) 30 5.20 M18) 30 6.18 6.18 6.18 6.18 6.18 6.18 6.18 6.18		\$	·	22 27 4
W12) 30 81.9		\$		22524
#19) 30 6.18 6.18 6.18 6.18 90 90 90 90 90 90 90 90 90 90 90 90 90		£		ყ 5 ∓ 4
6.18 30 11.90 30 11.90 47.90 1159000 115900 115900 115900 115900 115900 115900 115900 11		\$		5 4 4
20 11.90 47.90 15900 159		\$		2 +
30 11.90 <7.14 NA 22.70 18.00 30 30 40.80 689 689 689 689 689 689 689 689 689 689		Š.		4
30 11.90 47.14 NA 22.70 18.00 30 30 30 30 30 30 30 30 30 30 30 30 3		ž		
18.00	2222222	0.81		
20 689 10.80 20 10.60 20 8.60 30 8.60 30 0.00 30 0.03 30 0.03 4.50E-04 3.60E-03				
20 30 30 30 30 30 30 30 4,50E-04 6,60E-03 6,60E-03 6,60E-03 7,50E-04 7,50E-04 8,60E-03 8,60E-04 7,50E-04 7,50E-04 7,50E-04 7,50E-04 7,50E-04				₹
10.80 295 30 30 8.60 8.60 90 90 90 90 90 90 90 90 90 90 90 90 90		8 8		2
295 10.60 10.60 8.60 30 30 0.03 30 0.03 4.50E-04 Beans-p-florin 30 3.60E-03		20.01		a.
30 8.60 0.00 0.00 0.03 0.03 0.03 0.03 0.03 0		295		۲×
30 0.00 30 0.03 4.50E-04 decree form 30 8.40E-05 bears p dotin 30 3.60E-03		9001		et s
0.00 0.03 4.50E-04 8.40E-05 3.60E-03	Toleran 30 Xylenes 30	99.8		•
0.03 4.50E-04 8.40E-05 3.60E-03	Xytenes 30	000		۲
4.50E-04 8.40E-05 3.60E-03 3.20E-04	The state of the last of the l	0.03		5
8.40E-05 3.60E-03		4.506		2
3.60E-03	Bear-Mondifferen from 30	8.40E		
3,208.04	Occation Brown - dintin 30	3.606		⊽
	Oceanifornia ferre 30	3.206-		6

(a) All units in agig-dry weight back RPD . Retains Percent Difference

NA = Value Not Applicable

Bupty sows indicate to data was ave 1612 - Method for explosives

LM18 = Method for SVOCs

APPENDIX C.1 FIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't)

	Commod				-		
	1		SS-01-002			SS-37-010	
	SFO.	Original	Duplicate	RPD (%)	Original	Dupficate	RPD (%)
Days (R.)	€	•	0		•	•	
Parameters (2)							
				,	;		
Makens	R	12.30	97:1	•	7.40	2.60	<u></u>
To the same of the	8				<0.250	0.36	ź
Assemb	8	5.5	0.80	7	3.51	3.46	
Abenham	8	8320	916	٥	0861	1860	•
	8	152	£	7	43.10	42.70	,
Devillan	8	0.95	1.17	21			
Calcium	8	36900	36800	~	25600	29100	13
Cutation	2	0.88	36 :0	_	0.97	40.700	ž
Cubat	8	5.33	5.67	٠	2.27	2.15	85
Cupper	8	65.20	75.20	=	4.41	4.20	8
1	2	9236	10300	۰	4380	4100	7
Personal	R	3240	3430	•	558	532	'n
Magnesium	8	8720	9100	•	3560	4910	
Magneso	8	453	4%	-	92.10	92.10	⊽
24	R	322	317	7	122	5	7
Netrol	8	12.40	13.80	=	368	3.54	4
	8	72.70	57.72	_	26.90	23.10	15
Operation	8	10.60	11.80	=	5.17	5.32	6
Vessiles	2	15.40	16.10	•	8.85	8.78	***

(s) All units in up/g-dry we NPD - Belastre Percent DV

NA - Value Mot Applicable

APPENDEX C-1
FIRE D. BEPLICATE RESULTS FOR SOIL SAMPLES (corf.)

] 1	*	\$\$-01-002 (cent's)			SS-37-010 (cpm/6)	
(a a t	£ £	Original O	Outro	RPD (%)	1 0	Daylicate 0	(%) (A)
Principle (6)							,
1	2 8		<i>y</i> 1		2.40	2.60	• ≨
	888	29 5	8 7	\$			
la de la constante de la const	RR	8	3 2	Z	3 2	\$	
	R R	16.90	5. S.	≥ ₹	7.90	7.80	•
Occaphos thems p. Berle	8				<1.78.4	1.978.64	Ş

66 All water in many dry weight back
1870 - Backer Process Difference
18.6 - Veller No. Applicable
18.4 - Veller No. Applicable
18.4 - Veller No. Applicable
18.4 - Veller No. Applicable
18.4 - Veller No. Applicable
18.4 - Veller No. Applicable
18.4 - Veller No. Applicable
18.4 - Veller No. Applicable
18.4 - Veller No. Applicable
18.4 - Veller No. Applicable
18.4 - Veller No. Applicable
18.4 - Veller No. Applicable
18.4 - Veller No. Applicable
18.4 - Veller No. Applicable
18.4 - Veller No. Applicable
18.4 - Veller No. Applicable
18.4 - Veller No. Applicable
18.4 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5 - Veller No. Applicable
18.5

APPENDEX C.1

		HILD DUPLICATE RESULTS FOR SOIL SAMPLES (con't	ESSULTS FOR S	M. SAMP	.ES (con't)		
	Control						
	1		SD-14-002			SS-28-001	
	22	Original	Duplicate	RFD (%)	Original	Duplicate	RFD (3.)
Dayle (A.)	€	•	•		•	•	
Permeters (b)							
Molitica	8	27,30	93.90	7	3.00	3.10	m
Lead	Я	389	417	1	135	193	
Accento	8	33.60	31.90	80	25.50	24.20	s
Atmittee	2	9010	4730	•	2430	2740	2
	8	361	362	⊽	62.40	68.50	•
Cultibus	2	117000	10700	٠	20300	20500	⊽
Continue	8	41.90	41.00	7	19.70	19.10	ù
200	2				8 :	2.14	•
	8	604	416	7	22.80	29.00	8
	R	10100	9366	7	5740	2030	2
Potentiam	8				812	828	•
Manada	8	7320	0069	•	5840	5330	6
Management	8	2	132	•	891	E 1	•
	2	95	0.99	•	350	352	_
Method	8	33.90	<1.71	ž	8.06	999	8
Zinc	2	1260	1230	7	123	128	+
Oronies	8	141	145	_	24.30	28.10	=======================================
Vendem	8				8.07	8.4 6	~
,							

(a) All earls in apply-dry weight breek

N.T.D - Mahinto Poscant Difference

NA .: Value Met Amilicable

the fing indicates nearlt is greater than control Hard

Madher ann adhean an dan sea sealan

APPENDIX C-1 PER DEPLECATE RESERTS FOR SOIL SAN

						ò	
	Link	,	SD-14-002 (com/d)			55-28-001 (marte	
*	22	Ortoland	Dudiese	SEC (SE)	Steller	Patrick	
Dyn (L.)	Ê	•	.●		•	•	
3							
				•	33	32	
	R 8	8 71	13.40	•	-		
1	*	2	9	2		3	
Mercey	*	17.7	152	•			
Posts	8	3		ž			
	8	923	2	8			
	*	2.78	35	-	æ.		
i.							

APPENDEX C.1
PIER D DUPLICATE RESULTS POR SOR. SAMPLES (com')

	Seeta						
	7		\$5-27-001			SD-47-002	
	ZPO CPS	Original	Duplicate	RPD (S.)	Original	Duplicate	RPD (%)
Days (B.)	€	•	0		0	•	
						•	
Parameters (2)						•	والمستونية
Mohitera	R	7.30	7.40	-	8 C	3.50	•
750	8	381	35		3	131	
Arrento	2	5.46	1.67		21.00	15.30	
Absolute	8	2750	1830	~~~	285.	2600	=
Derten	R	<u>6</u>	2	#	66.40	09'19	•
Paythen	R				0.68	4 :	
Catches	8	10900	119000	•	00659	26400	2
Cudentina	2	11.90	17.00		5.63	4.12	
Cubush	8	4.83	3.16	~	3.50	3.52	_
Oppor	R	19.60	22.20	2	1470	S.	
	R	0769	6730	~	10500	12700	2
Personal	8	\$	3	22	739	675	0
Magnethen	8	26700	26408	-	99	946	⊽
Manganeso	8	145	2	ឌ	275	152	5
Sedim.	8	43	#	~	456	¥.	x
Wichel	R	15.60	16.30	~	3 .1	121	2
200	R	139	3	2	2090	246	15
Observing	R	76.40	81.70	7	13.40	12.80	87
Venden	8	15.60	12.40	ន	19.00	14.60	8
					-		

RPD - Relative Percent DM (s) All males in aging-dry and NA - Value Not App

APPENDEX C-1

THE	D DUFLICATE!	PHE & DUPLICATE RESERTS FOR SOEL SAMPLES (con't)	EL SAMPL	ES (com.t)	•.	
2 tag		SS-27-001 (cont'd)			SS-47-002 (cater'd)	
3	Ortginel 0	Depticate	RPD (%)	Original	Daplicate 0	RPD (%)
222	11.40	17.40	2	15.30	14.40	2 ° 2° €

(c) All units in ugity-dry weight back

RFD - Relative Percent Difference

RA - Value Net Applicable

Shafing indicates result is genery than control limit

Empty same indicate no date was available

PIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con'1)

	7						
	1		\$\$-34-002			SS-04-005	
	250	Original	Duplicate	SPD(%)	Original	Daylicae	RPD (%)
·,	€	•	.		•	•	
			•			••	
Maleture	R	8.80	8.40	\$	24.60	22.60	••
	8	230	197	2	9480	0598	•
Assente	8	30.10	37.60	2	17.00	11.90	
Alimber	8	4590	446	•	2630	1680	and the
	8	101.00	99:66	-	627	304	
	8	0.65	1.13		1.78	1.32	æ
Ostoben	8	13400	11800	2	17400	19500	=
	R	3.66	227		62.90	26.60	=
45	8	5.33	5.01	9	34.20	29.80	=
	8	43.20	4.40	m	151	133	2
	8	18300	17800	•	33500	26000	22
President	2	1470	25	6	25	S	200
	8	3020	3060	_	2820	4110	
	8	253	25	•	374	182	2
	8	274	276	1	392	300	22
7	8	29.60	15.00		35.10	29.40	~
	8	3	S	•	2750	2470	15
Chronism	2	22.80	15.90		0661	999	7
Vanishin	8	8 .90	8.55	+	13.60	10.40	27
		· · · · · · · · · · · · · · · · · · ·					

(c) All make in mofe-dry voight back.
RED - Relative Freezes Difference
NA - Value Not Applicable
Shaffing inflemes mouth is greater than control

APPRINGIX C.1

25-34-62 (const.) Outside Desiration (1990) Ou	88-34-02 (Cantro) 0-4-02 (Cantro) 0-3-02 (Cant
28-34-82 (conf.)	SS. 24 PD. (const.)
A A A	
3. 8	
] 18

FIELD DUPLICATE RESULTS POR SOIL SAMPLES (con't) APPENDIX C-1

			AC.38.001			Ch. RK JOK	
		1	10000	1900	- Tribital	Desiling.	1 000 (4)
	<u>-</u>			(E) C22			(R) (IN
Depth (ft.)	€	0	•		2	15	
Parameters (a)							
Motoring	28	32.10	31.90	_	11.30	11.00	<u></u>
Load	8	\$	Q	2	11.20	14.00	2
Accorde	2	7.04	6.62	9	5.50	6.12	=
Almina	8	3160	2880	6	11300	12700	22
	8	56.40	58.40	~	82.60	93.10	12
Berellen	8	67.0	0.85	7	0.86	1.02	71
Calcium	20	4290	4070	~	41000	38600	•
Codesian	8	29.30	26.40	2			
Contract	8	14.50	11.20	8	6.64	7.33	2
Comme	2	54.50	46.30	2	9.29	10.80	- 15
	2	4310	4010	~	11700	13300	13
Potentium	20	203	217	2	2530	2760	S
Meanin	8	434	431	-	6450	0770	~
Money	8	234	22	6	398	486	8
Soften	8	2230	1712	6	1730	0161	2
Note:	8	34.80	26.90	8	12.50	16.20	8
Zlac	8	559	250	7	49.60	5.30	2
Chamina	8	30.10	25.80	15	13.30	14.90	=
Venefiles	8	13.80	10.90	ឧ	25.20	28.50	12

RPD = Relative Percent DMI

Sheding indicates result is greater than control it NA = Value Not Applicable

Empty sows indicate no data was available

APPENDIX C-1 FIRE.D DUPLICATE RESULTS FOR SOIL SAMPLES (con't)

	3		AC-34-WI (confd)			28-8K-440 (COM CO	_[
	2	Original	Duplicate	RPD (%)	Original	Duplicate	EFO (3)
Days (A.)	Ê	•	0		15	2	
Parameters (s)							
Diedyfelliteles	8	4.10	3.80	**			
2-Medylasphatene	8	6.70	5.70	2			
4-Medicination	8	4.50	4.50	⊽			
Nucleice	8	2.50	220	13			
Penntren	2	0.38	0.30	2			
1000	8	380	360	~			
Seturbus	8	1.38	1.12	77		•	
White + Nierae	8				7.33	5.96	7
Pleashate	8				202	155	23
Charle	8				1480	1340	2
	8				797	813	7
T	8				6.30	7.90	23

(a) All units in upig-dry weight back

RPD - Retaine Percent Difference

NA = Value Not Applicable

miline indicates result is greater than control lim

Bargty sows ladicate no data was available

APPENDIX C.1

	FE	D DUPLICATE!	FIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't)	IL SAMPLI	ES (con't)		
	Commod						
			XB-46-003			SB-46-007	
	2	Original	Deplicate	RPD (%)	Original	Duplicate	RPD (%)
Days (A.)	E		qualif		***	-	
Parameters (a)							
Molecuse	22	8.80 2070	8.70 2578	-	5.40 48900	6.30	₹ •

(a) All units in mofe-dry weight bests

MPD - Relative Percent Difference

NA - Value Net Applicable

Shalling indicates result is greater than control limit

Smary rous indicate no data was available

(1995) a Tittel Becreenthic Postelana Hydrocarbons

APPENDEX C-1

		LD DUPLICATE!	esserts por soll sa	OIL SAMPL	MFLES (con't)	, s	
	Operator					CO 10 40	
		Others	Section Confidence	200 (E)	Orioinal	Designation of the second	S) Class
		1 8	5	2	<u>×</u>	¥1	
7.		8	3		3	•	
N. S. S. S. S. S. S. S. S. S. S. S. S. S.							
	8	21.00	19.80	•	10.40	066	so.
3	8	07:11	10.80	*	10.10	10.30	~
A second	R	4.88	5.17	٠	6.39	7.29	2
	R	0285	0199	2	4050	5230	X
1	8	75.10	82.60	2	37.30	55.30	,
	8	0.72	613	2	40.5	190	ž
-	8	34200	23800	7	20600	00661	6
3	R	4.64	÷	*	3.99	4	~
	R	09'6	9.17	S	6.85	999	2
	8	1486	11000	*	27.5		
1	R	0204	9692	6	292	2	2
	8	5710	253	so.	3890	9 66	-
	8	25	28	_	2	2	n
	8	2300	2340	7	1750	92.1	•
	8	2.9	5	~	7.53	7.95	S
Į.	8	33.10	32.90	~	25.10	33 83 83	~
	8	10.90	10.60	•	6.52	2	**
Vessiles	8	23.90	21.80	•	16.10	17.00	S

(b) All mails in majo dry velight back

1870 - Radados Persons (Milesano)

18.4 - Vales Net Applicable

Saudage indicates seeth is greater date control for

APPENDEX C.1

	FIEL	PRLD DUTLICA IS RESULTS FOR SOME SAME LASS COMES	MESOLINE VA				
	Consect	_	SB-01-005 (com/d)			SD-01-003 (com/d)	الم
Days (A.)	€ €	Original 20	Duplese 20	(%) Oda	Original 15	Depthene 15	_
Parameters (s)			3	:			
Mercary	R R 8	0.75	68 27		0.42	9.19	
New York	3 8 8	5 2	88 88	6	8 <u>8 9</u>	82	-
	R R	27.1 8.3	1120 8.38	7. 2	22 R	328 7.30	

(a) Adi unda in ugig-dry weight basis RPD -- Bedantoo Percent Difference RA -- Value Net Applicable Sanding badicatin stead is greater than control , <u>\$</u>

APPENDEX C-1

		DUPLICATER	ESSECTS FOR SO	Oft. Samp	.ES (con't)		
	Consect		CB. Br. 004			CB_01_987	
		Original	Duplicate	RPD (S)	Original	Dapticate	RPD(%)
Depth (A.)	8	8	8		2	2	
Parameters (a)							
Moleum	2	96.5	8.00	*	05.6	9	m
Lond	8	8	15.10	ĸ	8.80	60	m
Accenic	8	0.55	99'9	7	12.40	14.40	15
Atmatters	8	17100	15000	•••	3440	2760	22
	8	991	28	7	117	316	-
DayAllen	, -	1.53	1.38	2			
Catchen		47100	47400	-	28500	2800	ina
Color		6.87	7.01	~	2.79	3.82	•
Cupper	8	15,00	1,60	<u>_</u>	6.10	5.86	*
		16300	15400	•	7590	8	_
Peter		266	2200	•	3	2	2
Meanten		11500	1100	•	919	9910	÷
Management		Ę	9 ,7	₩.	611	5	=
		\$	164	7	023-1	1	
Metri	•	17.90	16.80	•	1.23	8.8	2
Zine Zine		65.00	6.10	~	22.60	21.30	•
Country		19.50	16.30	*	6.36	5.5	2
Venafer		27.72	25.90	7	16.30	15.30	•

(s) All units in ingly-dry weight breis

RFD = Relative Percent Difference

A - Votes Nes Amiliothic

KA = Vine ret Appear

the same the first one day was saying

APPRIDIX C.1

		DUPLICATE	PIELD DUPLICATE RESULTS FOR SOIL SAMPLES (con't)	H. SAMPI.	ES (cem't)		
			SB-BK-004(confd)			SB-01-007 (cont'd	
Deposit	€ €	Original 20	Daplicate 20	RPD (%)	Original 15	Duplicate 15	RPD(
Functions (C)		·				e '	
Property of the state of the st	888	0.92 258 8.50	1.03 553 9.10	- 1	10.10	305 10,20	-

(a) All malls in unit, dry wodyll basis

MFD = Belgine Poster Difference

WA = Value Not Applicable

Shading indicates struck to greater than control limit

leasty your indicate no data was available

APPENDIX C-1 FREE DEVELOCATE RESULTS FOR SOIL SAMPLES (con'1)

O		Date (I.)	Parameters (10)	Moderne 30	***	American Mariante				Children	**		***	The state of the s		•		7		8	Versellen 38
2 #											,				-		_		_		_
	Original	z		6.00	97.10	7.20	9	111	2.70	25	3.11	25.00	25	3	2750	ĭ	2	7.46	17	10.8	33
EP-01-096	Duplicate	SE		5.80	2	6.70	430	219	5.65	200	4.11	47.10	21900	1350	2720	Ħ	2	12.00	<u>%</u>	18.30	6.71
	RPD (%)			6	7	•••	•	z	Sam Lange	⊽	8	4 19 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		•		White ST bruke.	19	and the same	•	State of Labor.	8
	Uniginal	9.8		3.70	7.37	7.8	2240	48.50	2.46	11900		6.11	5500	3	3690	110	8	5.4	26.00		12.00
EP-01-099	Duplicate	5.6		4.00	5.15	7.38	2530	25.30	2.21	90,11	-	4.45	2400	77.	3670	***	25	5.65	23.50		12.20
	RPD (%)			••	×	13	2	2	=	· 64			~	→	-	•	⊽	•	2	•	~

Cab All make in supp. dry weight back

New Continue Person Difference

NA - States May Assessed

saling indicates excelt is greater than cannot limit

banks some indicate no date was available

	√ 1 ,	DEMPLICATE	APPENDEX C-1 RESULTS FOR 8	APPENDEN C-1 PIELD BURLLCATE RESULTS FOR SOIL, SAMPLES (con'1)	(),		
	3		FP-01-096(conf.d)			EP-01-099 (com/d	
Day 6(2)	2€	Original 3.5	Duplicate 3.5	(%) Cara	Original 9.5	Depticate 9.5	~
	222	27.5	2.27 436 4.30	11 28 28	1.22 284 16.90 8.10	13.4 389 18.80 7.58	
(2) All seeks to so	Sery melge bes			·			

(a) All make in regit dry weight leads
(b) - Relative Process Difference
(c) - Value Mer Applicable
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than control
(c) - Value Merces result is greater than cont

APPENDEX C-1
FIRE, D DUPLICATE RESULTS FOR SOIL, SAMPLES (con'1)

	Outside Links		FP-01-102			EP-01-105	
	5	Original 9.9	Dapticate	RPD (%)	Original	Daylor	RPD (%)
	(1)						
Passactus (4)	•						
Miles	2	9.30	9.60		10.00	11.10	2
Lead	R	162	SQ	X.	09'01	07:1	=
Acente	2	6.75	7.06	-	59'9	8.92	22
Atmetern	2	2280	243	2	3476	478	23
1	2	129	22	7	2	103	7
Beryfilms	2	\$:	0.63	=			
Catha	*	1300	21900	8	35800	35900	▽
Coffee	2	7.7	22	33			
	2	6.41	5.47	2	404	3.6	~
0	R	1330	4.20	22 7	6.63	12.70	*
1	R	34200	25700	8	25	25.76	13
Personal	R	286	2170	•	1430	1540 0451	٠
Manneton	2	2	203	2	0673	6726	*
Manager	2	5	2	n	Ē	72	••
	*	317	SK.	-	255	813	*
	8	26.45	15.80		7.78	16.1	7
27.0	2	69'6	S		22	3	×
Operation	8	13.40	12.90	•	537	6.47	2
Venaflum	8	9.19	13.50	R.	17.60	19.10	••

APPENDEX C.1

	PIEL	D DUFLICATE	FIELD DUPLICATE RESULTS POR SOIL SAMPLES (cen't)	M. SAMP	.ES (com.t)		
•	Control		EP-01-102(com(4)		٠	F9.01.105/cm/3	
Date (B.)	18 .	Original 9.5	Dapticate 9.5	RPD (%)	Original 7	Duplicate 7	RFD (%)
3112							
Ster 244-Total North-North	888	1.12 7.83 3.21	2.16	AN 148			
	2 2	9 49 6 20	56.	# # ≨	602	419	*
•	8	8.30	2.70	'n	9.20	09'1	2

(a) All amins in aging dry weight basis

RPD - Relative Percent Difference

NA - Value Not Applicable Shallbut indicates routh is presser than control limit

Brighty sews indicate no data was available

APPENDIX C.1
FIRE.D DUPLICATE RESULTS FOR SOIL EAMPLES (con't)

	Constrol		1111000			311 10 40	
	1-	Ostobes		1900	(Pelatan		DON CEN
Days (R.)	€	25	5.5		26	9.5	
Permeten (s)							
Moisses	8	36	3.90	•	7.80	0.7	
Lend	2	7.26	8.39	=	7.23	7.62	s
Arrente	8	10.50	13.50	ង	6.15	8	Ħ
Almateur	8	4310	3060	121	3620	3340	•
No.		97.30	2	*	81.40	8:18	⊽
Calcium		25800	25700	7	22400	23000	(C)
Catal	•	2.83	2.84	⊽	2.93	2.92	⊽
Chapter	8	6.09	5.88	~	15.40	3	26
	•	7390	6520	22	0649	2000	17
Personn	R	91	3	×	94	8	7
Memorina	R	9699	2630	•	4570	4540	,
- The same	8	113	\$	7	5	2	2
	8	\$	375	••	£\$	4	-
3	2	6.7	6.36	•	203	5.8	R
2hc	8	23,20	20.40	13	23.60	21.80	•
Chemiter	8	7.19	5.84	77	6.26	5.59	5
Venefice	8	16.70	14.60	23	14.40	13.60	•

RFD - Relative Percent Dit

APPENDIX C-1 ILD DUPLICATE RESULTS FOR SOIL SAMPLES

	Connects		EP-01-111(cont.8)			EP-01-115/conf4	
Dupa (R.)	8 0	Original 5.5	Duplicate 5.5	KPD (%)	Original 9.5	Defices 9.5	(£) Q22
	2222	245 68.50 9.40	135 82.90 8.30	8 22	2.18 267 109 37 9.80	266 209 134 17.59 9.60	88588

(a) All seales in aging dry weight basis

MAY - Mallet Andread Leaders

Shading tedicates result to greater than control limit

APPENDIX C.3
FIRE,D DUPLICATE RESULTS FOR WATER SAMPLES

	Constitution of		6W 17 001			20 71 788	
Page (8.)	2 €	0.00 0.000	Destroy	(S) G#	Original		(S) Q4
Parameter (s)							
Acresic	2	33	42	ž			
	R	68.5	63.8	⊽		•	-
Chil	8	10700	107000				1
1	8	46.7	1.05	ន			
3	8	228	25.	2			
Ziprosta Ziprosta	8	46700	45700	7			
	8	243	24.5				
	8	22200	22000				•
1	8	211000	206000	7			
Ottonform	8				0.615	8.6 8.5	ź
Hambone	8	•	•	2			
- Section 1	2	8 2	7400	⊽			
3	2	41000	410000	7	•		
Marks + Monte	8	24.9	13.5				
	8	132000	132000	⊽			# #

(2) All mater is may.

NA = Value not applicable

170 - Retains Percent Difference

hading indicates speak is greater than control limi

hanty nous inflicate no data was available

APPENDIX C.2 FIRED DUPLICATE RESULTS FOR WATER SAMPLES

	Control			
	Limit		B -1	
	RPD	Original	Duplicate	RPD (%)
Depth (A.)	€	293	293	
Parameters (a)				
Trichtoroetene	8	3.59	3.51	۲۰
Lend	8	<1.3	51	٧×
Schulen	8	5.5	3.7	2.
Perten	8	48.7	48.0	-
Catches	8	113000	112000	-
Potensien	2	6230	2820	_
Magnesium	8	54500	21500	0
Manganese	8	23.1	21.8	7
Sodium	R	129000	130000	-
Note	8	1.04	49.7	0
Zinc	8	5240	5350	7
Nierte + Nierte	8	0061	1990	
Phosphate	2	84 2	749	12
Oxforte	8	328000	331000	_
Setfate	8	164000	164000	0

(a) All mits in age.

NA = Value not applicable

RPD - Religive Percent Difference

Shading indicates sessit is essaier than control limit

APPENDIX C-3 SUMMARY OF RPD. FOR FIELD DUPLICATE RESULTS

Parameter	Number Times RPD Exceeded Control Limits	Total Number of Times RPD Calculated	Percent of RPDs Exceeding Control Limits (%)
Soil			
Volatile Organic Compounds			
Trichlorofluoromethane	0	1	0
Xylenes	0	1	0
emivolatile Organic Compounds		·	
Pyrene	0	3	0
Bis(2-ethylhexyl)phthalate	0	1	0
Phenanthrene	1	3	33
Fluoranthene	0	1	0
Naphthalene	1	. 2	50
Diethylphthalate	0	1	0
2-Methylmaphthalene	0	1	0
4-Methylphenol	0	1	0
Phenol	0	1	0
Organochiorine Pesticides			
2,4-D	1	1	100
a-Chlordane	0	2	0
b-Chlordane	0	1	0
g-Chlordane	0	1	0
Diektrin	1	1	100
DDT	0	. 2	0
DDD	0	1	0
Explosives			
RDX	5	8	63
HMX	0	4	0
2,4-DNT	1	2	50
2,6-DNT	1	1	100
1,3,5-TNB	1	4	25
2,4,6-TNT	2	4	50
Nitrobenzene	0	1	0
1,3-Dinitrobenzens	0	1	0
TRPH	2	5	40
Dioxine/Purans			
Heptachlorodibusso-p-dioxis	0	1	0
Heptachlorodibenzo furm	1	1	100
Octachlorodibenzo-p-dioxin	0	1	0
Octachiorodibenzo furan	0	1	0

APPENDIX C-3
SUMMARY OF RPD+ FOR FIELD DUPLICATE RESULTS

	Paratneter	Number Times RPD Exceeded Control Limits	Total Number of Times RPD Calculated	Percent of RPDs Exceeding Control Limits (%)
Metals				
	Beryllium	7	19	37
	.ead	21	59	36
	Arsenic	11	61	18
	Uuminum	17	62	27
E	Barium	9	62	15
(Calcium	9	62	15
(Copper	16	61	26
Ŀ	ron	12	62	19
F	otassium	10	60	17
D	Aagnesium	6	62	10
D	langanese	7	62	11
S	odium	11	61	18
1	Nickel .	9	60	15
7	Zinc .	9	61	15
C	hromium	14	58	24
1	/anadium	8	59	14
-	Intimony	3	5	60
	admium	8	32	25
(Cobalt	6	48	13
S	ilver .	2	5	40
T	hallium	4	8	50
S	elenium	0	4	0
y	Aercury	2	7	29
Cyanide		4	6	67
Anions				
F	hosphate	17	28	61
	hloride	4	21	19
	Vitrite + Nitrate	5 0	26	19
S	Sulfate	0	5	0
	neous Methods			
	Acisture	4	62	6
10	H	3	35	9

APPENDIX C-3 SUMMARY OF RPD+ FOR FIELD DUPLICATE RESULTS

Parameter	Number Times RPD Exceeded Control Limits	Total Number of Times RPD Calculated	Percent of RPDs Exceeding Control Limits (%)
Water			
Metals Selenium	1	1	100
Anions Nitrice + Nitrace	1	2	50

TRPH - Total Recoverable Petroleum Hydrocarbons

APPENDIX C-4
SUMMARY OF SOIL MATRIX SPIKE RPD:

		Control	Total No.		
Method	Compound	Limit	Spiked	No. RPDs	Percent of RPD
		%	Results	Outside Limits	Outside Limits
Volatile Organic Co	manumde			•	
(LM19)	Benzene	21	18	2	11
(TM13)	Chlorobenzene	21	18	2	J1
	1,1-Dichloroethylene	22	18	0	0
	Toluene	21	18	1	
	Trichloroethene	24	18	0	6
	1 richtoroethene	24	19	U	0
Semivolatile Organi	c Compounds				
(LM18)	4-Chloro-3-methylphenol	33	26	2	8
	1,4-Dichlorobenzene	27	26	1	4
	2,4-Dinitrotoluene	47	26	5	19
	4-Nitrophenol	50	26	1	4
	n-Nitroso-di-n-propylamine	38	26	1	4
	Pentachlorophenol	47	26	1	4
	Phenol	35	26	1	4
	Pyrene	36	26	1	4
	1,2,4-Trichlorobenzene	23	26	1	4
	2-Chiorophenol	50	26	1	4
	Acenaphthene	19	26	1	4
O	inidaa				
Organochlorine Pest (LH10)	g-BHC (Lindane)	20	6	0	0
(22110)	Aldrin	40	6	Ŏ	Ŏ
	Dieldrin	20	5	Ŏ	0
	a-Endosulfan	20	6	2	33
	b-Endosulfan	20	6	2	33
	Endrin	20	5	0	0
	Heptachlor	20	5	Ŏ	Ö
	Isodrin	20	6	1	17
	Methoxychlor	20	5	0	0
	DDT	20	6	2	33
Explosives (LW12)	2,4-DNT	19	31	0	0
(LW 12)	RDX	18	31 31	1	3
	1,3,5-TNB	25	31 31		
	Nitrobenzene	24	31 31	1 0	3
	2,4,6-TNT	23	31 31	0	0
		22			0
	2-Nitrotoluene		31	0	0
	Nitroguanidine	25	4	0	0

APTENDEX C-4
SUMMARY OF SOIL MATRIX SPIKE RPD:

Method		Compound	Control Limit %	Total No. Spiked Results	No. RPDs Outside Limits	Percent of RPDs Outside Limits
TRPH	(I)	ТКРН	23	7	0	0
Metals	(JD19)	Arsenic	20	39	8	21
	(JD15)	Selenium	20	39	4	10
	(JD17)	Lead	20	18	9	50
	(JB01)	Mercury	10	40	2	5
	(JS16)	Antimony Beryllium	25 25	39 39	2 0	5 0
		Cadmium	25	39	1	3
		Chromium	25	39	i	3
		Cobalt	25	39	Ō	0 1
		Copper	25	39	7	18
		Lead	25	39	8	21
		Nickel	25	39	2	5
		Silver	25	39	2	5
		Thallium	25	39	0	0
		Vanadium	25	39	0	0
		Zinc	25	39	7	18
Cyanide	(KY01)	Cyanide	20	38	1	3
Anions	(EIVI)	Cyana	20		•	3
	(KF10)	Nitrite + Nitrate	10	32	4	13
	(KT05)	Fluoride	20	1	0	0
		Sulfate	20	29	0	0
		Chloride	20	29	3	10
	(KF14)	Phosphate	20	22	8	36

TRPH - Total Recoverable Petroleum Hydrocarbons

APPENDIX C-5
SUMMARY OF WATER MATRIX SPIKE RPD+

Method		Compound	Central Limit %	Total No. Spiked Results	No. RPDs Outside Limits	Percent of RPDs Outside Limits
Metals						
	(SD22)	Arsenic	. 20	2	0	0
	(SD21)	Selenium	20	2	0	0
	(SD20)	Lead	20	2	0 .	0
	(SB01)	Mercury	20	2	0	0
	(SD09)	Thallium	20	2	0	0
	(SS10)	Aluminum	20	2	0	0
		Antimony	20	2	. 0	0
		Barium	15	2	0	0
		Beryllium	15	2	0	0
		Cadmium	15	2	0	0
		Calcium	15	2	1	50
		Chromium	15	2	0	0
		Cobalt	15	2	0	Ō
		Copper	15	2	0	0
•		iron	20	2	0	0
		Magnesium	15	2	0	Ö
		Manganese	20	2	0	0
		Nickel	20	2	0.	0
		Potassium	5	2	0	0
		Silver	20	2	0	0
		Sodium	15	2	1	50
		Vanadium	20	2	Ō	0
		Zinc	15	2	1	50
Anions	(TE22)	Nicrite + Nicrote	•	1	•	•
	(TF22)	Munc + Mark	5	1	0	0
	(TT10)	Chloride	20	1	0	0
	(TT10)	Suifate	20	1	0	0
	(TF27)	Phosphate	14	1	0	0

APPENDIX C-5
SUMMARY OF WATER MATRIX SPIKE RPD=

Method	Compound.	Control Limit %	Total No. Splited Results	No. RPDs Outside Limits	Percent of RPDs Outside Limits	_
Volatile Organic Con	apounds					
(UM 20)	Benzene	11	4	0	0	
	Chlorobenzene	13	4	0	0	
	1,1-Dichloroethylene	14	4	0	0	
	Toluene	13	4	· 0	0	
	Trichloroethene	14	4	0	0	
Semivolatile Organic	: Compounds					
(UM18)	1,2,4-Trichlorobenzene	28	2	0	0	
-	1,4-Dichlorobenzene	28	2	0	0	
	2,4-Dinitrotokene	38	2	0	0	
·	2-Chiorophenoi	40	2	0	0	
	4-Chloro-3-methylphenol	42	2	0	0	
	4-Nitrophenol	50	2	0	0	
	Acenaphthese	31	2	0	0	
	N-nitroso-di-n-propylamine	38	2	0	0	1
	Pentachiorophenol	50	2	0	0	•
	Phenel	42	2	0	0	
	Pytene	31	2	0	.0	
Organochlorine Pesti	icides					
(UH13)	g-BHC, (Lindane)	15	1	0	0	
	Aldrin	20	1	0	0	
	DDT,pp	20	1	0	0	
	Dieldrin	20	1	0	0	
	Endrin	20	1	0	0	
	Hisptachlor	20	1	0	0	
	leodrin	20	1	0	. 0	
	Methoxychior	20	1	0	0	
Explosives						
(UW32)	RDX	25	1	0	0	
• •	1,3,5-TNB	25	1	0	0	
	Nitrobenzene	25	1	0	0	
	2,4,6-TNT	25	1	0	0	
	2-Nitrotoluene	25	1	0	0	

APPENDIA .-6

SURROGATE RECOVERIES FOR SOIL SAMPLES OUTSIDE CONTROL LIMITS (Page 1 of 8)

9 4	OI stoney	Depth (feet)	Method	Compound	Dilution	Recovery.	
Volume Oranie Common							
NSOR.1° 22	EP-01-011	0.9	>	Tolucae-D8		₹.	81-117
NBOR.1*35	EP-01-018	6.5	>	4-Bromofluorobenzene		22	80-120
TASORLI- 52	EP-01-026	7.0	>	Tolucae-D8	-	2	81-117
PASCALI" 108	EP-01-054	4.5	>	Toluce-D8	-	120	81-117
NECELI*209	EP-01-105	2.0	>	4-Bromoflamoberaene	-	2	80-120
TABOR.? 209	EP-01-105	8.0	>	1,2-Dichlorochane-D4		3	85-115
INSORTI - 209	EP-01-105	5.0	>	Tolacao-D8	_	130	81-117
NSOIL1*211	EP-01-106	8.0	>	4-Bromoflacrobenzene	-	2	80-120
NSOLI-211	BP-01-106	8.0	>	Toleene-D8		82	81-117
TWORE 1 - 215	EP-01-108	5.0	>	4-Bronoflacrobenzene	-	2	80-120
NSOR.1°215	EP-01-108	5.0	>	Toluene-D8	-	8	81-117
NSOIL 1* 216	EP-01-108	7.0	>	1,2-Dichloroethano-D4		2	85-115
NSOR.1* 219	EP-01-018	6.5	>	4-Bromofluorobenzene	_	r.	80-120
PROELI* 297	EP-01-109	4.0	>	Toluene-D8	-	22	81-117
INSORT: 382	28-01-007	35.0	>	1,2-Dichloroethane-D4	-	=	88-115
TASOELI* 408	\$5-04-001	0.0	>	Tolucne-DB	-	82	81-117
THSOR.1* 410	\$5-04-003	0.0	>	Toluene-D8	-	82	81-117
TISOR.1" 412	\$3-04-00\$	0.0	>	4-Bromofleorobenzene	-	%	80-120
TASOR. 1 - 412	\$3-64-005	0.0	>	Tokene-D8		82	81-117
NSOE.1. 772	SS-04-005 Dup	0.0	>	Tokens-D8	-	6 21	81-117
NSOR.1* 413	35-04-0	0.0	>	Tolecno-D8	_	921	81-117
NSOR.1* 414	\$D-14-001	0.0	>	Tolueno-D8	_	. 82	81-117
748CB.1* 420	\$5-19-002	0.0	>	Tolecae-D8	-	8	81-117
107 01 0000	CC. 10.703	9	>	Tohoma-DR	_	5	21,117

APPENDIX C-6

SURROGATE RECOVERIES FOR SOIL SAMPLES OUTSIDE CONTROL LIMITS (Page 2 of 8)

1.26 10 TNSOE.1° 422 TNSOE.1° 423 TNSOE.1° 424	Cl slames	(feet)	Method	Compound	Factor	Y1 %	Limits
TNSOE.1* 422 TNSOE.1* 423 TNSOE.1* 424							
TNSOR. 1* 423 TNSOR. 1* 424	55-19-004	0.0	>	Tolesse-D8	-	021	81-117
TNSOIL 1* 424	\$5-19-00\$	0.0	>	Tolesso-D8	-	23	81-117
	SS-19-006	0.0	>	Tolerac-D8	-	120	81-117
120ET: 425	28-19-007	0.0	>	Tolera-D8	_	52	81-117
TNSOE.1* 426	SS-19-008	0.0	>	Tolerro-D8	-	8	111-117
TNSOR.1* 428	85-19-010	0'0	>	4-Bromoflaorobonsone	-	2	80-120
TNSOR.1 • 428	010-61-88	0.0	>	1,2-Dichlorochano-D4	_	8	85-115
TNSOR.1° 429	110-61-55	0.0	>	1,2-Dichlorochane-D4	-	3	85-115
TNSOIL!* 431	88-19-010	0.0	>	1,2-Dichloroofhane-D4		*	85-115
TNSOR.1* 434	\$5.20.001	0.0	>	Tolecao-D8	-	\$	81-117
TASOR.1* 439	\$5-20-006	0.0	>	Tolecno-D8	-	130	81-117
TNSOR.1° 449	\$3-20-016	0.0	>	Tolerro-D8	-	82	81-117
DCSOE.1* 461	\$5-21-009	0.0	>	Tolerno-D8	-	22	81-117
TASOR.1* 466	SB-26-004	0.1	>	Tolesno-D8	-	20	81-117
TNSOR.1* 467	SB-26-005	0.	>	1.2-Dichlorochene-D4	_	911	\$\$-115
INSOR.1* 469	SB-26-007	0.	>	Tolerac-D8		021	81-117
FNSOE.1-476	SB-26-014	0.1	>	Tolecno-DB	-	22	81-117
INSOR.1° 477	SB-26-015	0.	>	1,2-Dichiorochane-D4	-	120	85-115
THEORET - 479	SB-26-001	0.0	>	1,2-Dichloncethane-D4	-	124	\$5-115
TNSOR.1° 480	SB-26-002	0.0	>	Tolecno-D8	-	8	81-117
TNSOR.1° 481	SB-26-003	0.0	>	Tolerano-D8	_	120	81-117
THEOR.I. 482	SB-26-004	0.0	>	1,2-Dichtonostene-D4	-	8	85-115
TNSOR.1° 485	SB-26-007	0.0	>	4-Bromofinorobenze.e	-	7	80-120
.1.485	SB-26-007	0.0	>	Voroctions-D4	-	Z	\$2:115

APPEND... :-6

SURROGATE RECOVERIES FOR SOIL SAMPLES OUTSIDE CONTROL LIMITS (Page 3 of 8)

		416.6			Dilation	Recover	Control
di del	Sample 1D	(feet)	Method	Compound	Factor	Y. %	Limits
TNSOIL.1* 485	SB-26-007	0.0	>	Tolerone-D8	-	8	81-117
TNSOR.1" 487	SB-26-009	0.0	>	Tolecne-D8	_	120	81-117
TNSOELI* 490	SB-26-012	0.0	>	1,2-Dichloroethane-D4		22	88-115
TNSOIL 1* 493	SB-26-015	0.0	>	Toleene-D8	-	120	81-117
TNSOEL1* 495	\$\$-26-032	0.0	>	Toluene-D8	-	120	81-117
TNSOEL1* 498	SS-26-035	0.0	>	Tolecne-D8	-	120	81-117
TNSOB.1* 499	\$5-26-036	0.0	>	Tolueno-D8	_	120	81-117
TNSOE.1* 500	\$\$-26-037	0.0	>	Toluene-D8	***	021	81-117
TNSOIL 1 - 502	\$5-26-039	0.0	>	Toluene-D8	_	120	81-117
TNSOEL1* 503	SS-26-040	0.0	>	Tolucae-D8	-	120	81-117
TNSOE.1° 594	SS-26-041	0.0	>	Tolucac-D8	-	120	81-117
TNSOR.1* 505	\$5-26-042	0.0	>	Tolucae-D8	_	021	81-117
TNSOIL.1* 307	SS-26-044	0.0	>	Tolucne-D8	_	120	81-117
TNSOIL.1* 514	\$5-26-021	0.0	>	Tolucne-D8	_	130	81-117
TNSOR.1* 516	SS-26-02 3	0.0	>	Tolucne-D8	-	120	81-117
TNSOR.1" 518	\$5-26-025	0.0	>	Tolucae-D8	-	120	81-117
TNSOR.1" 519	\$5-26-026	0.0	>	1,2-Dichloroethane-D4	-	118	88-115
TNSOE.1* 519	33-26-026	0.0	>	Toluene-D8	-	120	81-117
TNSOE.1* 522	\$5-26-029	0.0	>	Toluene-D8	-	8	81-117
TNSOEL1* 527	\$\$-26-025	0.0	>	Tolueno-D8	-	23	81-117
TNSOE.1° 555	SB-29-004	4.0	>	Toluene-D8	-	120	81-117
TNSOR.1° 564	SB-29-008	4.0	>	Tolucne-D8	-	130	81-117
TNSOIL 1* 568	SB-29-010	0.0	>	Tolseae-D8	-	62	81-117
TNSOR.1* 577	SB-29-015	0.0	>	Tolucne-DB		120	81-117

APPENDIX C-6

SURROGATE RECOVERIES FOR SOIL SAMPLES OUTSIDE CONTROL LIMITS (Page 4 of 8)

•		Depth			Ditation	Recever	Contro
14 10	Sample 1D	(feet)	Method	Compound	Factor	7. %	Limits
TNSOE.1" SES	SB-25-019	20	>	Tolerac-D8	-	921	81.117
TASOLI. SE	SB-29-022	0.0	>	Tokeno-D8	_	120	81-117
THEOREM 597	SB-29-025	4.0	>	Tokeno-DB		130	81-117
TNSOB.1* 625	SB-29-010	0.0	>	Tolucio-D8	-	8	81-117
THEOR. 1" 650	\$5-36-003	0'0	>	Tolsone-D8	_	82	81-117
TNSOR.1" 652	AC-38-001	0.0	>	4-Bromoftonobonzene	-	0	80-120
INSOR.1 · 652	AC-38-00!	0.0	>	1,2-Dictionethane-D4	 -	•	85-115
INSOR.1º 652	AC-38-801	0.0	>	Tolsono-DB	-	82	81-117
TNSOR.1° 653	AC-38-001	0,0	>	4-Bronoflambencene		•	80-120
TNSOR.1* 653	AC-38-001	0.0	>	1,2-Dichtorochane-D4	-	•	\$5-115
TNSOE.1* 653	AC-38-001	0.0	>	Tokeno-D8	-	8	81-117
TASOLI. 691	SB-45-001	0.0	>	Tolsess-D8	_	. 82	81-117
THEOREM 702	SD-45-004	0.0	>	Tolerno-D8	-	921	81-117
TNSOR.1* 763	SD-45-006	0.0	>	Tolerac-D8	-	22	81-117
THSOR.1" 764	SD-45-003	0.0	>	Tolueno-D8	-	62	81 117
bantastalla Organ	ande Commonwell						
INSOE.1* 416	SD-14-003	0.0	S	2,4,6-Tribromophenol	2	2	20-140
THEOR. 1 • 434	\$5-20-001	00	SV	Phenol-D5	23	23	24-113
TNSOE.1" 434	35-20-001	0.0	SV	2,4,6-Tribromophenol	23	•	20-140
THEORE.1" 435	SS-20-002	0.0	SV	2,4,6-Tribromaphenol	X	0	20-140
TNSOR.1* 436	\$5-20-003	0.0	SV	2,4,6-Tribromophenol	\$2	•	20-140
TNSOIL I • 437	\$5-20-004	0.0	SV	2,4,6-Tribromophenol	22	•	20-140
27-438	\$5-20-005	0.0	SV	2. Bromophenol	82	•	20-140

APPENDIX C-6

SURROGATE RECOVERIES FOR SOIL SAMPLES OUTSIDE CONTROL LIMITS (Page 5 of 8)

		Depth			Dilution	Recover	Control
Lab ID	Sample 1D	(feet)	Method	Compound	Factor	Y: %	Limits
TNSOIL 1* 439	\$5-20-006	0.0	S	2,4.6-Tribromophensl	8	0	20.140
TNSOIL 1 • 442	SS-20-009	0.0	SV	2,4,6-Tribromophenol	Ş	7	20-140
TNSOIL 1* 443	SS-20-010	0.0	SV	2,4,6-Tribromophenol	S	0	20-140
TNSOIL1 445	SS-20-012	0.0	SV	2,4,6-Tribromophenol	95	C	20-140
TNSOIL1 47	SS-20-014	0.0	S	Phenol-D5	95	120	24-113
TNSOIL 1* 448	\$5-20-015	0.0	SV	2,4,6-Tribromophenol	20	S	20-140
TNSOIL 1 • 450	\$5-20-001	0.0	SV	Phenol-D5	25	22	24-113
TNSOIL 1 • 450	\$5-20-001	0.0	S	2,4,6-Tribromophenol	25	0	20-140
TNSOIL 1* 451	SS-20-012	0.0	λS	2,4,6-Tribromophenol	S	•	20-140
TNSOIL 1* 465	SB-26-003	0.1	SV	2,4,6-Tribromophenol	25	15	20-140
TNSOIL 1 • 469	SB-26-007	0.1	SV	2,4,6-Tribromophenol	25	0	20-140
TNSOIL 1 • 479	\$B-26-001	0.0	SV	2,4,6-Tribromophenol	25	ec	20-140
TNSOIL 1* 480	SB-26-002	0.0	S	2,4,6-Tribromophenol	25	91	20-140
TNSOIL 1* 481	SB-26-003	0.0	S	2,4,6-Tribromophenol	25	2	20-140
TNSOILI* 494	\$5-26-031	0.0	S	2,4,6-Tribromophenol	\$	0	20-140
TNSOIL 1* 495	\$5-26-032	0.0	SV	2,4,6-Tribromophenol	9	0	20-140
TNSOIL 1 • 496	\$5-26-033	0.0	S	2,4,6-Tribromophenol	90	12	20-140
TNSOIL 1 • 500	SS-26-037	0.0	S	2,4,6-Tribromophenol	9	13	20-140
TNSOR.1* 516	SS-26-023	0.0	SV	Phenol-D5	20	9	24-113
TNSOE.1* 517	\$5-26-024	0.0	26	2,4,6-Tribromophenol	82	0	20-140
TNSOILI* 518	SS-26-025	0.0	SV	2,4,6-Tribromophenol	9	0	20-140
TNSOIL 1 • 520	SS-26-027	0.0	SV	2,4,6-Tribromophenol	Q	0	20-140
TNSOIL 1* 521	\$5-26-028	0.0	SV	2,4,6-Tribromophenol	50	7	20-140
•	656 15 61	5	?	2 d d Tribermembrand	2	61	XI.140

APPENDIX C-6

SURROGATE RECOVERIES FOR SOIL SAMPLES OUTSIDE CONTROL LIMITS (Page 6 of 8)

Lab 1D	Sample ID	Depth (feet)	Method	Composind	Dilution Factor	Recover 7, 35	Control Limits
TNSOIL! 523	SS-26-030	0.0	SV	2,4,6-Tribromophenol	93	0	20-140
TNSOB_1 • 527	SB-26-025	0.0	SV	2,4,6-Tribromophenol	\$	a	20-140
TNSOIL 1 · 579	SB-29-016	0.0	SV	2,4,6-Tribromophenol	23	•	20-140
TNSOIL1* 580	SB-29-016	2.0	S	2,4,6-Tribromophenol	8	12	20-140
TNSOELI- SBI	SB-29-017	0.0	SV	2,4,6-Tribromophenol	S	9	20-140
TNSOIL! 587	SB-29-020	0.0	SV	2,4,6-Tribromophenol	\$2	••	20-140
TNSOILI* 588	SB-29-020	2.0	SV	2,4,6-Tribromophenol	S	•	20-140
TNSOELI+ 589	SB-29-021	0.0	SV	2,4,6-Tribromophenol	93	œ	20-140
TNSOEL1 - 590	SB-29-021	4.0	>\$	2,4,6-Tribromophenol	23	••	20-140
TNSOIL 1* 591	SB-29-022	0.0	S	2,4,6-Tribromophenol	S	•	20-140
TNSOEL1* 592	SB-29-022	2.0	25	2,4,6-Tribromophenol	2	9	20-140
TNSOIL 1* 594	SB-29-023	2.0	25	Nierbenzene-DS	S	8	23-120
TNSOIL 1 - 594	SB-29-023	2.0	S	Phenol-D5	S	e	24-113
TINSOIL I* 594	SB-29-023	2.0	S	2,4,6-Tribromophonol	S	0	20-140
TNSOIL 1 • 600	SB-29-026	2.0	SV	2,4,6-Tribromophenol	22	0	20-140
TNSOft.1* 602	SB-29-027	4.0	SV	2,4,6-Tribromophenol	2	2	20-140
TNSOIL.1* 613	SB-29-033	0.0	SV	2,4,6-Tribromophenol	82	•	20-140
TREOLLI* 616	SB-29-034	4.0	SV	2,4,6-Tribromophenol	9	e	20-140
TNSOR.1* 623	SB-29-015	0.0	SV	2,4,6-Tribromophenol	8	2	20-140
TNSOIL 1 • 636	\$\$-37-002	0.0	SV	2,4,6-Tribromophenol	82	•	20-140
TNSOR.1° 638	SS-37-004	0.0	SV	2,4,6-Tribromophenol	8	•	20-140
TNSOE.1" 641	SS-37-007	0.0	SV	2,4,6-Tribromophenol	8	0	20-140
TNSOR.1* 644	SS-37-010	0.0	SV	Nikrobenzene-D5	8	•	23-120
75.1.	SS-37-010	0.0	SV	Parol-D5	92		24-113

APPENDI. :-6

SURROGATE RECOVERIES FOR SOIL SAMPLES OUTSIDE CONTROL LIMITS (Page 7 of 8)

		Depth			Dilution	Recover	Control
Lab 1D	Sample IP	(feet)	Method	Compound	Factor	y, %	Limits
TNSOR.1* 644	SS-37-010	0.0	S	2,4,6-Tribromophenol	50	0	20-140
TNSOIL 1* 646	SS-37-012	0.0	SV	2,4,6-Tribromophenol	8	0	20-140
TNSOIL!* 647	SS-37-010	0.0	SV	2,4,6-Tribromophenol	20	15	20-140
TNSOILI* 652	AC-38-001	0.0	SV	2,4,6-Tribromophenol	ν,	2	20-140
TNSOIL 1* 652	AC-38-001	0.0	SV	Terphenyl-d14	S	12	20-140
TNSOIL 1* 653	AC-38-001	0.0	SV	2-Fluorophenol	S	22	25-121
TNSOIL 1* 653	AC-38-001	0.0	SV	2,4,6-Tribromophenol	S	\$	20-140
TNSOIL 1* 653	AC-38-001	0.0	SV	Terphenyl-d14	S	9	20-140
TNSOIL 1* 691	SB-45-001	0.0	SV	Nitrobenzene-D5	S	13	23-120
TNSOIL 1* 691	SB-45-001	0.0	SV	2-Fluorophenol	S	73	25-121
TNSOIL 1* 691	SB-45-001	0.0	SV	2,4,6-Tribromophenol	S	0	20-140
TNSOIL 1* 699	SD-45-001	0.0	SV	2,4,6-Tribromophenol	25	0	20-140
TNSOIL 1* 700	SD-45-002	0.0	SV	Nitrobenzene-D5	200	0	23-120
TNSOIL 1* 700	SD-45-002	0.0	SV	Phenol-D5	200	œ	24-113
TNSOIL 1 • 700	SD-45-002	0.0	SV	2-Fluorophenol	200	•	25-121
TNSOIL 1 • 700	SD-45-002	0.0	SV	2,4,6-Tribromophenol	200	0	20-140
TNSOIL I* 700	SD-45-002	0.0	SV	Terphenyl-d14	200	0	20-140
TNSOIL I* 700	SD-45-002	0.0	SV	2-Fluorobiphenyl	200	0	30-115
TNSOE.1* 701	SD-45-003	0.0	SV	2,4,6-Tribromophenol	22	0	20-140
TNSOIL 1* 702	SD-45-004	0.0	SV	Nitrobenzene-D5	8	0	23-120
TNSOILI* 702	SD-45-004	0.0	SV	Phenol-D5	8	130	24-113
TNSOIL 1* 702	SD-45-004	0.0	SV	2-Fluorophenol	901	0	25-121
TNSOIL I* 702	SD-45-004	0.0	SV	2,4,6-Tribromophenol	90	0	20-140
TNSOIL 1 * 703	SD-45-005	0.0	SV	Nitrobenzene-D5	<u>00</u>	0	23-120

APPENDIX C-6

SURROGATE RECOVERIES FOR SOIL SAMPLES OUTSIDE CONTROL LIMITS (Page 8 of 8)

		Denth			Dilation	Recover	Control
Cab 1D	Sample 1D	(feet)	Method	Compound	Factor	y, %	Limits.
TNSOIL I • 703	SD-45-005	0.0	SV	Phenol-D5	901	120	24-113
TNSOILI • 703	SD-45-005	0.0	SV	2-Fluomphenol		0	25-121
TNSOILI+ 703	SD-45-005	0.0	SV	2,4,6-Tribromophenol	9	0	20-140
TNSOILI • 704	SD-45-003	0.0	S	2,4,6-Tribromophenol	25	0	20-140
TNSOIL1 • 768	SD-47-001	0.0	SV	2,4,6-Tribromophenol	S	0	20-140
TNSOIL 1 • 769	SD-47-002	0.0	SV	2,4,6-Tribromophenol	20	0	20-140
TNSOIL I* 772	SS-04-005	0.0	S	2-Fluorobiphenyl	4	120	30-115
TNSOILI* 774	SD-47-002	0.0	NS SV	2,4,6-Tribromophenol	82	0	20-140
Organchlorine Pesticides	cides						
TNSOIL I* 565	SB-29-009	0.0	a 00	Tetrachloro-m-xylone	_	8	611-19
TNSOIL I* 581	SB-29-017	0.0	OC	Decachlorobiphenyl	8	33	60-120
TNSOIL I* 582	SB-29-017	3.0	OC.	Decachlorobiphenyl	9	40	60-120
TNSOIL 1 • 623	SB-29-015	0.0	oc.	Decachlorobiphenyl	20	45	60-120
TNSOIL 1 • 630	SS-34-002	0.0	d O C	Decachlorobiphenyl	99	0	60-120
TNSOIL1 • 631	SS-34-003	0.0	OC	Decachlorobiphenyl	60	0	60-120
TNSOIL 1 • 632	SS-34-004	0.0	6 0	Decachlorobiphenyl	<u>8</u>	C	60-120
TNSOIL 1 • 634	SS-34-002	0.0	g OC	Decachlorobiphenyl	200	0	60-120
TNSOIL1 • 700	SD-45-002	0.0	OC.	Decachlorobiphenyl	200	13	60-120
TNSOIL I* 702	SD-45-004	0.0	0 00	Decachlorobiphenyl	\$	*	60-120
TNSOP.1+703	SD-45-005	0.0	OC.	Decachlorobiphenyl	82	28	60-120
TNSOIL 1* 773	\$8-34-006	0.0	OCP	Deachlorobighenyl	93	0	60-120

- 8 - . .

Volutile Organic Compounds
Organochlorine Pesticides
Semivolatile Organic Compounds

APPENDIX C-7 SURROGATE RECOVERIES FOR WATER SAMPLES OUTSIDE CONTROL LIMITS

Lab ID	Sample ID	Depth (feet)	Method	Compound	Recovery, %	Control Limits
Volatile Organic Compou	ınds			•		
All samples had accep		eries.			•	
Semivolatile Organic Con	npounds					
All samples had accep	table surrogate recov	етіеѕ.				
Organochlorine Pesticide	5					
•	table surrogate recov	eries.				

ID - Identification

APPENDIX C-8
SUMMARY OF SOIL MATRIX SPIKE RECOVERIES

		Control	Total No.	<u> </u>		-
Method	Compound	Line	Spiked	No. Spikes	Percent of Spikes	
		%	Results	Outside Limits	Outside Limits	_
Volatile Organic Com	nounde					
(LM19)	Benzene	66-142	- -37	0 🕶	^	•
(FWIA)	Chlorobenzene	60-142	37 -	0	0 0	•
	1,1-Dichloroethylene	59-172	37	0	0	
	Toluene	59-172 59-139	37 37	0	0	
	Trichloroethene	62-137	37 37	Ö	0	
Semivolatile Organic (Compounds					
(LM18)	4-Chloro-3-methylphenol	26-103	52	5	10	
\	1.4-Dichlorobenzene	28-104	52	4	8	
	2.4-Dinitrotoluene	28-89	52 52	23	44	
	4-Nitrophenol	11-114	52 52	23	44	
	n-Nitroso-di-n-propylamine	41-126	52	2	4	
	Pentachlorophenol	17-109	52	29	56	
	Phenoi	26-90	52	7	13	
	Pyrene	35-142	52	0	0	4
	1,2,4-Trichlorobenzene	38-107	52	3	6	1
	2-Chlorophenol	25-102	52	3	6	
	Acenaphthene	31-137	52	0	0	
Organochlorine Pestic	ides					
(LH10)	g-BHC (Lindane)	20-140	12	2	17	
	Aldrin	42-122	12	3	25	
	Dieldrin	40-140	10	2	20	
	a-Endosulfan	45-150	12	3	25	
	b-Endosulfan	20-200	12	4	33	
	Endrin	30-150	10	4	40	
	Heptachlor	35-110	12	9	75	
	Isodrin	80-120	12	4	33	
	Methoxychlor	80-120	10	5	50	
	DDT	25-160	12	5	42	
Explosives						
(LW12)	2,4-DNT	68-106	62	6	10	
	RDX	71-107	62	4	6	
	1,3,5-TNB	65-115	62	0	0	
	Nitrobenzene	72-120	62	0	0	
	2,4,6-TNT	72-118	62	6	10	
	2-Nitrotoluene	70-114	62	4	6	
	Nitroguanidine	70-120	4	0	0	

APPENDIX C-8
. SUMMARY OF SOIL MATRIX SPIKE RECOVERIES

Method		Compound	Control Limit %	Total No. Spiked Results	No. Spikes Outside Limits	Percent of Spikes Outside Limits
Metals						
	(JD19)	* Arsenic	80-120	78	43	55
	(JD15)	Selenium	80-120	78 <i>e</i>	64	82
	(JD 17)	Lead	80-120	20	21	105
	(JB01)	Mercury	80-120	78	20	26
	(JS16)	Antimony	75-125	78	31	40
		Beryllium	75-125	78	2	3
		Cadmium	75-125	78	4	5
		Chromium	75-125	78	5	6
		Cobalt	75-125	78	3	4
		Copper	75-125	78	25	32
		Lead	75-125	78	19	24
		Nickel	75-125	78	5	6
		Silver	75-125	78	9	12
		Thallium	75-125	78	3	4
		Vanadium	75-125	78	3	4
		Zinc	75-125	78	22	28
Cyanide						
	(KY01)	Cyanide	70-120	74	1	1
Anions						
	(KF10)	Nitrite + Nitrate	80-120	62	6	10
	(KT05)	Sulfate	85-115	56	4	7
		Chloride .	85-115	56	9	16
	(KIF14)	Phosphate	80-120	44	18	41
Miscel	lianeous Meth					
	(I)	TRPH	76-122	14	0	0

TRPH - Total Recoverable Petroleum Hydrocarbons

. APPENDIX C-9
SUMMARY OF WATER MATRIX SPIKE RECOVERIES

		Control	Total No.		
Method	Compound	Limit	Spiked	No. Spikes	Percent of Spikes
		%	Results	Outside Limits	Outside Limits
•					
•			_		
Volatile Organic Con	-		•	_	_
(UM 20)	Benzene	76-127	8	0	0
	Chlorobenzene	75-130	8	0	0
	1,1-Dichloroethylene	61-145	8	0	0
	Toluene	76-125	8	0	0
	Trichloroethene	71-120	8	0	0
Semivolatile Organic	Compounds				
(UM18)	4-Chloro-3-methylphenol	23-97	4	0	0
	1,4-Dichlorobenzene	36-97	4	0	0
	2,4-Dinitrotoluene	24-96	4	2	50
	4-Nitrophenol	10-80	4	0	0
	n-Nitroso-di-n-propylamine	41-116	4	0	0
	Pentachiorophenoi	9-103	4	2	50
	Phenol	12-89	4	Ō	0
	Pyrene	26-127	Ā	Ŏ	Ö
	1.2.4-Trichlorobenzene	39-98	4	Ö	Ŏ
	2-Chlorophenoi	27-123	Ä	Ö	Ŏ
	Acenaphthene	46-118	4	Ö	Ŏ
Organochlorine Pesti	cides				
(UH13)	g-BHC (Lindane)	56-123	2	0	0
(0000)	Aldrin	42-122	2	ŏ	Ö
	DDT,pp	25-160	2	Ŏ	Ö
	Diekkrin	40-140	2	Ŏ	0
	a-Endosulfan	70-120	2	Ö	Ö
	b-Endosulfan	60-130	2	0	0
	Endrin	30-150	2		_
	Heptachior		2	0	0
	-	40-131	4	U	U
	Isodrin	80-120	2	0	0
	Methoxychlor	80-120	2	0	0
Explosives					
(UW32)	2,4-DNT	65-105	2	0	0
	RDX	70-110	2	0	0
	1,3,5-TNB	65-105	2	0	0
	Nicrobensene	65-105	2	0	0
	2,4,6-TNT	65-105	2	0	0
	2-Nitrotoluene	60-100	2	Ō	Ō

APPENDIX C-9
SUMMARY OF GROUNDWATER MATRIX SPIKE RECOVERIES

			Control	Total No.		
Method		Compound	Limit	Spiked	No. Spikes	Percent of Spikes
			%%	Results	Outside Limits	Outside Limits
TRPH	(I)		76-122	1	0	0
Metals						•
	(SD22)	Arsenic	80-120	4	0	0
	(SD21)	Selenium	80-120	4	3	75
	(SD20)	Lead	80-120	4	1	25
	(SB01)	Mercury	80-120	4	1	25
	(SD09)	Thallium	80-120	4	0	ō
	(SS10)	Aluminum	80-120	4	Ö	Ō
		Antimony	80-120	4	0	Ō
		Barium	85-115	4	0	Ō
		Beryllium	85-115	4	0	Ō
		Cadmium	85-115	4	0	Ŏ
		Calcium	85-115	4	3	75
		Chromium	85-115	4	0	Ö
		Cobalt	85-115	4	0	Ö
		Copper	85-115	4	0	Ō
		lron	80-120	4	Ö	Ō
		Magnesium	85-115	4	1	25
		Manganese	85-115	4	Ō	0
		Nickel	80-120	4	Ō	Ö
		Potassium	92-108	4	Ō	Ö
		Silver	80-120	4	Ō	Ö
		Sodium	8 S-115	4	2	50
		Vanadium	80-120	4	0	0
		Zinc	85-115	4	1	25
Cyanide	(TF18)		85-115	1	1	100
Anions						
	(TF22)	Nitrite + Nitrate	92-108	2	0	0
	(TT10)	Chloride	85-115	2	0	0
	(TT10)	Sulfate	85-115	2	0	0
	(TF27)	Phosphate	86-114	2	0	0

TRPH - Total Recoverable Petroleum Hydrocarbons

APPENDIX C-10 SUMMARY OF POSITIVE SOIL METBOD BLANK CONCENTRATIONS

			Method Blank	CRL	_
Lot Number	Method	Compound	(HRAS)	(h0/S)	
Volatile Organic Compo	ounds				_
YSM	LM19	Acotone	0.007	0.017	
YSN	LM19	Acetons		0.017	
YST	LM19	Acetone	0.001	0.017	
YSW	LM19	Acetone	0.004	0.017	
YSY	LM19	Accione	0.003	0.017	
ZTC	LM19	Acetone	0.003	0.017	
ZTB	LM19	Acetone		0.017	
YSV	LM19	Acetone	0.008	0.017	
YSX	LM19	Actions	0.006	0.017	
YSZ	LM19	Actione	0.01	0.017	
ZTA	LM19	Acetone	0.01	0.017	
ZTJ	LM19	Acetone	0.007	0.017	
ZTE	LM19	Acetone	0.004	0.017	
ZTW	LM19	Acetone	0.004	0.017	
ZTX	LM19	Acetone	0.001	0.017	(
ZTG	LM19	Acetone	0.007	0.017	
ZTM	LM19	Acetone	0.003	0.017	
ZTO	LM19	Acetone	0.003	0.017	
ZTP	LM19	Acetone	0.007	0.017	
ZTN	LM19	Acetone	0.007	0.017	
ZTS	LM19	Acetone	0.007	0.017	
ZTL	LM19	Acetone	0.01	0.017	
ZTQ	LM19	Acetone	0.003	0.017	
ZTT	LM19	Acetone	0.003	0.017	
ZTY	LM19	Acetone	0.003	0.017	
ZTV	LM19	Acetone	0.003	0.017	
AJB	LM19	Acetone	0.004	0.017	
AJC	LM19	Acetone	0.004	0.017	
AJD	LM19	Acetone	0.003	0.017	
AJF	LM19	Acetone	0.005	0.017	
AII	LM19	Acetone	0.003	0.017	
ÄIJ	LM19	Acetone	0.003	0.017	
AJG	LM19	Acetone	0.003	0.017	
AJD	LM19	Carbon Disuifide	0.0004	0.0044	
YSV	LM19	Chloroform		0.00087	
YSX	LM19	Chloroform	0.0004	0.60067	
YSZ	LM19	Chioroform	**	0.00087	
ZTA	LM19	Chioroform		0.00087	
ZTE	LM19	Chloroform	0.0004	0.00087	1
ZTW	LM19	Chloroform	0.0005	0.00087	,

APPENDIX C-10 SUMMARY OF POSITIVE SOIL METHOD BLANK CONCENTRATIONS

			Method Blank	CRL
Lot Number	Method	Compound	(H 0/2)	(12/2)
ZTM	LM19	Chioroform	0.0004	0.00087
ZTO	LM19	Chloroform	0.0003	0.00087
AJD	LM19 -	Chloroform	0.0005	0.00087
AJF	LM19	Chloroform	0.0004	0.00067
AJI	LM19	Chloroform	0.0003	0.00087
AJJ	LM19	Chloroform	0.0005	0.00087
YST	LM19	Methylene Chloride	0.003	0.012
YSW	LM19	Methylene Chloride	0.001	0.012
YSY	LM19	Methylene Chloride	0.003	0.012
ZTC	LM19	Methylene Chloride	0.003	0.012
YSV	LM19	Methylene Chloride	0.003	0.012
YSX	LM19	Methylene Chloride	0.002	0.012
ZTA	LM19	Methylene Chloride	0.006	0.012
ZTF	LM19	Methylene Chloride	0.0009	0.012
ZTE	LM19	Methylene Chloride	0.005	0.012
ZTW	LM19	Methylene Chloride	0.002	0.012
ZTX	LM19	Methylene Chloride	0.002	0.012
ZTM	LM19	Methylene Chloride	0.001	0.012
210	LM19	Methylene Chloride	0.001	0.012
ZTT	LM19	Methylene Chloride	0.001	0.012
AJD	LM19	Methylene Chloride	0.002	0.012
AJF	LM19	Methylene Chloride	0.003	0.012
AЛ	LM19	Methylene Chloride	0.002	0.012
AJJ	LM19	Methylene Chloride	0.001	0.012
ZTF	LM19	Toluene	0.0003	0.00078
ZTM	LM19	Toluene	0.0006	0.00078
270	LM19	Toluene	0.0004	0.00078
ZTS	LM19	Toluene	0.0003	0.00078
ZTQ	LM19	Toluene	0.0004	0.00078
ZTT	LM19	Toluene	0.0005	0.00078
AJC	LM19	Toluene	0.0004	0.00078
YSX	LM19	Benzene	0.0002	0.0015
YST	LM19	Trichlorofluoromethane	0.005	0.0059
ZTA	LM19	Trichlorofluoromethane	an g⊶⊶¥®ani.	0.0059
ZTW	LM19	Trichlorofluoromethane	0.004	0.0059
ZTX	LM19	Trichlorofluoromethane	0.005	0.0059
ZTG	LM19	Trichlorofluoromethan	0.004	0.0059
ZTS	LM19	TrichloroGuoromethuse	0.004	0.0059
ZTQ	LM19	Trichlorofluoromethane	0.004	0.0059
ZIT	LM19	Trichlorofluoromethane	0.002	0.0059
AJB	LM19	Trichlorofluoromethane	. 1.	0.0059

APPENDIX C-10 SUMMARY OF POSITIVE SOEL METHOD BLANK CONCENTRATIONS

			Method Blank	CRL	
Let Number	Mathed	Compound	(A.S.)	(h4,6)	
AJC	LM19	Trichlorofinoromethme		0.0059	
AJF	LM19	Trichlosofluoromethane	0.002	0.0059	
AJI	LM19	Tricklorofluoromethene	0.005	0.0059	
AJJ	LM19	Trichlorofluoromethene	0.002	0.0059	
AJG	LM19	Trichlorofluoromethane	0.001	0.0059	
YSW	LM19	Dichlorobenzene	0.001	0.1	
Semivolatile Organic C	ompounds				
YLS	LM18	Bis(2-ethylhexyl)phthalate	0.34	0.62	
YLU	LM18	Bis(2-ethylhexyl)phthalate	0.60	0.62	
ZNB	LM18	Bis(2-ethythexyl)phthainte	0.11	0.62	
YLY	LM18	Bis(2-ethylhexyl)phtheises	0.18	0.62	
ZNE	LM18	Bis(2-ethylhexyl)phtheises	0.07	0.62	
ZNC	LM18	Bis(2-ethylhexyl)phthainte		0.62	4
ZND	LM18	Bis(2-ethylhexyl)phthelate	0.28	0.62	-(
ZNG	LM18	Bis(2-ethylhexyi)phthalase	0.15	0.62	•
ZNH	LM18	Bis(2-ethylhexyl)phthalate	0.05	0.62	
ZNO	LM18	Bin(2-ethylhexyl)phthalate	0.16	0.62	
ZNN	LM18	Bia(2-ethylhexyl)phthalass	0.13	0.62	
ZNK	LM18	Bis(2-ethylhexyl)phthalate	0.08	0.62	
ZNR	LM18	Bis(2-ethylhexyl)phthalate	0.10	0.62	
ZNT	LM18	Bis(2-ethylhexyl)phthalate	0.25	0.62	
ZNU	LM18	Bis(2-ethylhexyi)phthaisse	0.10	0.62	
ZNP	LM18	Bio(2-ethylhexyl)phtheiate	0.12	0.62	
ZNV	LM18	Bis(2-ethylhexyl)phthalate	0.15	0.62	
ZNX	LM18	Bio(2-othylhexyl)phtheists	0.09	0.62	
ZNW	LMIS	Bis(2-ethylhexyl)phthalute	0.09	0.62	
ZNY	LM18	Bis(2-ethylhexyl)phthalate	0.15	0.62	
ABA	LM18	Bio(2-ethylhexyl)phthalate	0.36	0.62	
AEB	LM18	Bis(2-ethylhexyl)phthalate	0.10	0.62	
AEG	LM18	Bio(2-edylhexyl)phthelete	0.11	0.62	
AEK	LM18	Bis(2-ethylhexyl)phthalate	0.47	0.62	
ZNV	LM18	Phonombrone	0.03	0.033	
Organochlorine Pesticie	ĝes				
YFR	LH10	a-BHC	0.0000	0.00907	
YPU	LH10	a-BHC	0.00008	0.00907	
YPR	LH10	g-BHC (Lindane)	0.00009	0.00638	4
YPU	LH10	g-BESC (Lindana)	0.00006	0.00638	
YPR	LHIO	DDD.PP	0.0003	0.00826	1
		DOT,PP			

	-		Method Blank	CRL	
Lot Number	Method	Compound	(h 4 /8)	(h&\&)	
ABD	LH10	DDT,PP'	0.002	0.00707	
YPR	LH10	Endoselfan Sulfate	0.0004	0.000763	
YPR	LH10	laodrin	0.0004	0.00461	
YPU	LH10	Isodrin	0.0002	0.00461	
YPZ	LH10	lsodrin	0.XXX	0.00461	
RNY	LHII	2,4-Dichlorophenoxyacetic Acid	0.005	17.7	
TRPH					
ZOW	I	TRPH	5.07	21*	
ZOX	I	TRPH		21*	
ALV	I	TRPH	10.7	21*	
ALW	1	TRPH	10.9	21*	
ASK	I	TRPH	15.1	21*	
Metals					
ZIZ	JD19	Arsenic	4	0.25	
ZJH	JS16	Beryllium	0.301	0.50	
ZJS	JS16	Beryllium	0.312	0.50	
ZJT	JS16	Beryllium	0.347	0.50	
ZJU	JS16	Beryllium	0.271	0.50	
YGS	JS16	Chromium	186 - Burgaria Bal	4.05	
YGT	JS16	Chromium	3.60	4.05	
ZJA	JS16	Chromium		4.05	
ZJB	JS16	Chromium		4.05	
ZJC	JS16	Chromium		4.05	
ZJD	JS16	Chromium		4.05	
ZJF	J \$16	Chromium		4.05	
ZJH	JS 16	Chromium		4.05	
ZII	JS16	Chromium		4.05	
ZJK	JS16	Chromium		4.05	
ZJL.	JS16	Chromium	3.80	4.05	
ZJM	JS 16	Chromium	***	4.05	
Z)Q	J \$16	Chromium	3.53	4.05	
ZJS	JS16	Chromium		4.05	
ZIT	JS 16	Chromium		4.05	
ZJU	JS 16	Chromium		4.05	
ZJW	J\$16	Chromium		4.05	
ZJX	JS16	Chromium		4.05	
AOA	JS16	Chromium	3.66	4.05	
AOD	JS16	Chromium		4.05	
YGT	J316	Cobalt	1.02	1.42	

Lot Number	Mathed	Compound	Method Blank (µg/g)	CRL (µg/g)	
	 				_
YGS	JS16	Copper		0.965	
YGT	J\$16	Copper		0.965	
ZJA	JS16	Copper		0.965	
ZJB	JS16	Copper		0.965	
ZJC	JS16	Copper		0.965	
ZJD	JS16	Copper		0.965	
ZJF	JS16	Copper		0.965	
ZJH	JS16	Copper		0.965	
ZII	JS16	Copper		0.965	
ZJK	JS16	Copper		0.965	
ZJL	JS16	Copper		0.965	
ZIM	JS16	Copper		0.965	
ZJQ	J \$16	Copper		0.965	
ZJS	JS16	Copper	10 mm	0.965	
ZJT	J S16	Copper		0.965	
ZJU	<i>J</i> S16	Copper		0.965	
ZJW	JS16	Copper		0.965	•
ZIX	J S16	Copper		0.965	
AOA	J S16	Copper		0.965	
AOD	JS 16	Copper		0.965	
ZAI	JD17	Lead	2.2	0.177	
ZAJ	JD17	Lead		0.177	
ZAM	JD17	Lead		0.177	
ZAO	JD17	Lead		0.177	
ZAP	JD17	Lead		0.177	
ZAS	JD17	Lead		0.177	
ZAN	JD17	Lead		0.177	
ZAW	JD17	Lead		0.177	
ZAZ	JD17	Lead		0.177	
ZAX	JD17	Lead		0.177	
ZXA	JD17	Lead		0.177	
ZX 03	JD17	Lead		0.177	
2204	JD17	Lead	Fig. 15	0.177	
ZXG	JD17	Load		0.177	
20 0	JD17	Lead		0.177	
20 0	JD17	Leed		0.177	
ZXQ	JD17	Lead		0.177	
ZX S	JD17	Lead		0.177	
ZXW	JD17	Lead		0.177	
ZX	JD17	Lead		0.177	
YGT	JS16	Lead	3.67	10.5	•

			Method Blank	CRL
Lot Number	Method .	Compound	(h a /s)	(h\$\\$)
ZJA	JS16	Lead	3.04	— 10.5
ZJB	JS16	Lead	. 3.48	10.5
ZID	JS16	Lead	3.52	10.5
ZJH	JS16	Lead	4.06	10.5
ZJL	JS16	Lead	2.55	10.5
ZJM	JS16	Lead	3 <i>.</i> 27	10.5
ZIT	JS16	Lead	3.14	10.5
ZJW	JS16	Lead	3.61	10.5
AOA	JS16	Lead	3.08	10.5
YGS	JS16	Nickel	1.62	1.71
YGT	JS16	Nickel	1.37	1.71
ZJA	JS16	Nickel	1.14	1.71
ZJB	JS16	Nickel	0.949	1.71
ZJC	JS16	Nickei	0.764	1.71
ZJD	JS16	Nickel	1.57	1.71
ZJF	JS16	Nickel	1.13	1.71
ZJH	JS16	Nickel		1.71
ZЛ	JS16	Nickel	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1.71
ZJK	JS16	Nickel	1.68	1.71
ZJL	JS16	Nickel	ac 1000 1000 1000 1000 1000 1000 1000 10	1.71
ZJM	JS16	Nickel		1.71
ZJQ	JS16	Nickel	1.05	1.71
ZJS	JS16	Nickel	1.31	1.71
ZIT	JS16	Nickei	1.45	1.71
ZJU	JS16	Nickel		1.71
ZJW	JS16	Nickel .	1.48	1.71
ZJX	JS16	Nickel	1.29	1.71
AOA	JS16	Nickel	1.13	1.71
AOD	JS16	Nickei	1.63	1.71
YGS	JS16	Vanadium		3.39
YGT	JS16	Vanadium		3.39
ZJA	JS16	Vanadium		3.39
ZJB	JS16	Vanadium		3.39
ZJC	JS16	Vanadium		3.39
ZID	J \$16	Vanadium		3.39
ZJF	J \$16	Vanadium		3.39
ZJH	JS16	Vanadium		3.39
ZJI	JS16	Vanadium		3.39
ZJK	JS16	Vanadium		3.39
ZIL	JS16	Vanadium		3.39
ZIM	JS16	Vanadium		3.39

			Method Blank	CRL
Lot Number	Method	Compound	(H8/8)	(h 4 /\$)
ZJQ	JS16	Vanadium		3.39
ZJS	JS16	Vanadium		3.39
ZJT	JS16	Vanadium		3.39
ZJU	JS16	Vanadium		3.39
ZJW	JS16	Vanadium		3.39
ZIX	JS16	Vanadium		3.39
AOA	JS16	Vanadium		3.39
AOD	JS16	Vanadium		3.39
YGS	JS16	Zinc		8.03
YGT	JS16	Zinc		8.03
ZJA	JS16	Zinc		8.03
ZJB	JS16	Zinc		8.03
ZJC	JS16	Ziec		8.03
ZJD	JS16	Ziec	7.81	8.03
ZJF	JS16	2inc		8.03
ZJH	J S16	Zinc	7.67	8.03
ZΠ	J S16	Zinc	8.00	8.03
ZJK	J S16	2inc		8.03
ZIL	JS16	2inc		8.03
ZJM	J S16	Zinc	28.8	8.03
ZJQ	J S16	2inc	7.64	8.03
ZJS	JS16	Zinc		8.03
ZIT	JS16	Zinc .	and the second of the second o	8.03
ZJU	JS16	Zinc	7.59	8.03
ZJW	J S16	· Zinc	7.41	8.03
ZIX	JS16	Zinc .	7.08	8.03
AOA	JS16	2inc		8.03
AOD	JS16	Zinc .		8.03
YHS	JB01	Mercury	0.036	0.05
YHR	JB01	Mercury	0.014	0.05
ZQA	JB01	Mercury	0.025	0.05
ZQE	JB01	Mercury	0.031	0.05
ZQB	JB01	Mercury	0.030	0.05
ZQC	JB01	Mercury	0.032	0.05
ZQG	JB01	Mercury	0.030	0.05
ZQJ	JB01	Mercury	0.050	0.05
ZQH	JB01	Mercury	0.049	0.05
ZQL	JB01	Mercury	0.029	0.05
ZQP	JB01	Mercury	0.030	0.05
ZQS	JB01	Mercury	0.033	0.05
ZQU	JB 01	Mercury	0.022	0.05

			Method Blank	CRL
Lot Number	Method	Compound	(h e \s)	(148/8)
zqv	Љ01	Mercury	0.025	0.05
ZQW	JB01	Mercury	-0.032	0.05
ZQY	ЛВ01	Mercury	0.025	0.05
ANB	ЛВО1	Mercury	0.034	0.05
ANF	JB01	Mercury	0.026	0.05
yanide				
ZEF	KY01	Cyanide	0.06	0.92
ZEG	KY01	Cyanide	0.04	0.92
ZEJ	KY01	Cyanide	0.11	0.92
ZEK	KY01	Cyanide	0.25	0.92
ZEL	KY01	Cyanide	0.06	0.92
ZEM	KY01	Cyanide	0.16	0.92
ZEN	KY01	Cyanide	0.12	0.92
ZEP	KY01	Cyanide	0.05	0.92
ZES-A	KY01	Cyanide	0.07	0.92
ZES-B	KY01	Cyanide	0.07	0.92
nions				
ZDC	KF10	Nitrite + Nitrate	0.19	0.6
ZDD	KF10	Nitrite + Nitrate	0.18	0.6
ZDE	KF10	Nitrite + Nitrate	0.15	0.6
ZDF	KF10	Nitrite + Nitrate	0.11	0.6
ZDG	KF10	Nitrite + Nitrate	0.15	0.6
ZDH	KF10	Nitrite + Nitrate	0.14	0.6
ZDJ	KF10	Nitrite + Nitrate	0.19	0.6
ZDK	KF10	Nitrite + Nitrate	0.19	0.6
ZDL	KF10	Nitrite + Nitrate	0.18	0.6
ZDM	KF10	Nitrite + Nitrate	0.15	0.6
ZDN	KF10	Nitrite + Nitrate	0.17	0.6
ZDO	KF10	Nitrite + Nitrate	0.12	0.6
ZDP	KF10	Nitrite + Nitrate	0.19	0.6
ZDR	KF10	Nitrite + Nitrate	0.14	0.6
ZDS	KF10	Nitrite + Nitrate	0.10	0.6
ZDT	KF10	Nitrite + Nitrate	0.17	0.6
ZDU	KF10	Nitrise + Nitrate	0.11	0.6
AHA	KT05	Sulface	3.7	90.4
AHF	KT05	Sulfate	0.6	90.4
XHT	KT05	Chloride	1.3	6.05
AHA	KT05	Chloride	0.5	6.05
AHF	KT05	Chloride	0.06	6.05

Lot Number	Method	Compound	Method Blank (µg/g)	(HB/S)
XMM	KF14	Phosphate	1.77	7.49
XMP-A	KF14	Phosphate	0.34	7.49
XMP-B	KF14	Phosphate	0.34	7.49
XMQ	KF14	Phosphate	0.09	7.49
XMT-A	KF14	Phosphate	0.36	7.49
XMT-B	KF14	Phosphate	1.68	7.49
XMU-A	KF14	Phosphate	1.78	7.49
XMU-B	KF14	Phosphate	1.78	7.49
XMY	KF14	Phosphate	2.67	7.49
XMX-A	KIF14	Phosphate	3.21	7.49
XMX-B	KF14	Phosphate	1.83	7.49

The following analytes will not be considered in method blank samples due to high background concentrations: Aluminum, Barium. Calcium, Iron, Potassium, Magnesium, Manganese, and Sodium

She ting indicates a value above the CRL.

TRPH - Total Recoverable Petroleum Hydrocarbons

CRL - Certified Reporting Limit

^{*} Non-certified method; value reported is the detection limit.

		_	Method Blank	CRL
Lot Number	Method	Compound	(µg/L)	(µg/L)
olatile Organic Comp	ounds			
YMO	UM20	Chloroform	0.36	0.50
YMW	UM20	Chloroform	0.49	0.50
YMY	UM20	Chloroform	0.47	0.50
YMZ	UM20	Chloroform	0.43	0.50
ZPA	UM20	Chloroform	0.47	0.50
ZPD	UM20	Chloroform	0.49	0.50
ZPE	UM20	Chloroform	0.41	0.50
ZPF	UM20	Chloroform	0.42	0.50
ZPG	UM20	Chloroform	0.46	0.50
ZPH	UM20	Chloroform	0.35	0.50
ZPI	UM20	Chloroform	0.44	0.50
ZPK	UM20	Chloroform	1.3	0.50
ZPL	UM20	Chloroform	0.52	0.50
ZPS	UM20	Chioroform	0.50	0.50
ZPU	UM20	Chloroform	0.40	0.50
ZPW	UM20	Chloroform	0.48	0.50
ZPX	UM20	Chloroform	0.38	0.50
ZPY	UM20	Chloroform	0.50	0.50
ZPF	UM20	Toluene	0.45	0.50
ZPG	UM20	Toluene	0.50	0.50
ZPH	UM20	Toluene	0.40	0.50
ZPI	UM20	Toluene	0.49	0.50
ZPK	UM20	Toluene	0.44	0.50
ZPL	UM20	Toluene	0.49	0.50
ZPS YMW	UM20	Toluene	0.40	0.50
YMZ	UM20	Methylene Chloride	0.90	23
ZPA	UM20 UM20	Methylene Chloride	0.68	2.3
ZPD	UM20	Methylene Chloride	0.49	2.3
		Methylene Chloride	0.49	2.3
ZPT ZPG	UM20 UM20	Methylene Chloride Methylene Chloride	0.49 0.59	2.3
ZPH	UM20	Methylene Chloride	0.34	2.3
ZPS	UM20	Methylene Chloride	0.76	2.3 2.3
ZPW	UM20	Methylene Chloride	0.76 0.54	23
ZPY	UM20	Methylene Chloride	1.2	23
YMW	UM20	1,1,1-Trichloroethane	1.2	0.5
ZPF	UM20	Trichloroethene	0.17	0.5
YMO	UM20	Acetone	4.8	13
YMW	UM20	Acetone	13	13
YMY	UM20	Acetone	4.0	13
YMZ	UM20	Acetone	11	13
ZPA	UM20	Acetone	3.6	13

			Method Blank	CRL	
Lot Number	Method	Compound	(µ e/L)	(h a /L)	
ZPC	UM20	Acetone	5.4	13	
ZPD	UM20	Acetone	6.7	13	
ZPE	UM20	Acetone	3.9	13	
ZPF	UM20	Acetone	9.7	13	
ZPG	UM20	Acetone	11	13	
ZPI	UM20	Acetone	5.4	13	
ZPK	UM20	Acetone	7.6	13	
ZPL	UM20	Acetone	3.3	13	
ZPS	UM20	Acetone	5.7	13	
ZPX	UM20	Acetone	3.7	13	
Semivolatile Organic C	•				
YJQ	UM18	Bis(2-ethylhexyl)phthalate	2.3	4.8	
ZRA	UM18	Bis(2-ethylhexyl)phthalate	0.66	4.8	
XIX	UM18	Bis(2-ethylhexyl)phthalate	2.9	4.8	4
ZRH	UM18	Bis(2-ethylhexyl)phthalate	1.4	4.8	- (
ZRI	UM18	Bis(2-ethylhexyl)phthalate		4.8	`
ZRJ	UM18	Bis(2-ethylhexyl)phthalate	1.2	4.8	
ZRO	UM18	Bis(2-ethylhexyl)phthalate	2.5	4.8	
ZRR	UM18	Bis(2-ethylhexyl)phthalate	2.9	4.8	
ZRP	UM18	Bis(2-ethylhexyl)phthalate	1.4	4.8	
ZRV	UM18	Bis(2-ethylhexyl)phthalate	11	4.8	
Explosives					
YXV	UW32	RDX	0.282	1.17	
YXW-A	UW32	RDX	0.090	1.17	
YXW-B	UW32	RDX	0.094	1.17	
YXX-A	UW32	RDX	0.026	1.17	
YXX-B	UW32	RDX	0.026	1.17	
AFB	UW32	RDX	0.371	1,17	
YXW	UW32	HMX	0.028	1,21	
afa	UW32	HMX	0.261	1.21	
YXW	UW32	1,3-Dinitrobenzene	0.008	0.611	
YXW	UW32	Tetryl	0.2	1.56	
YXW	UW32	1,3,5-Trinitrobenzene	0.004	0.449	
TRPH		•			
ZWA	1	TRPH	12.9*	165	
ALN	1	TRPH	102*	165	4
Motais					
YOR	35 10	Iron	7.8	42.7	
YOU	SS 10	koa	14.3	42."	

Lot Number	Method	Compound	Method Blank (μg/L)	CRL
Tot Mamoes.	Menou	· · · · · · · · · · · · · · · · · · ·	(M /L)	(µg/L)
YOL	SS10	Aluminum	22.1	23.5
YOL	SS10	Calcium	90.1	500
YOR	SS10	Calcium	54.6	500
YOU	SS10	Calcium	42.2	500
YOW	SS10	Calcium	67.4	500
ZZA	SS10	Calcium	96.9	500
77E	SS10	Calcium	51.3	500
YOR	SS10	Sodium	78.4	500
XXP	SS10	Sodium	65.6	500
72K	SS10	Sodium	111	500
ions				
XIX	TT10	Chloride	414	2120
XIX	TT10	Sulfate	3340	10000
XXX	TF22	Nitrite + Nitrate	2.0	10
ZCB-A	TF27	Phosphate	2.90	13.3
ZCB-B	TF27	Phosphate	2.90	13.3
ZCC-A	TF27	Phosphate	2,96	13.3
ZCC-B	TF27	Phosphate	3.66	13.3
ZCD-A	TF27	Phosphate	3.22	13.3
ZCD-B	TF27	Phosphate	3.22	13.3
ZCE-A	TF27	Phosphate	2.75	13.3
ZCE-B	TF27	Phosphate	3.44	13.3
ZCF-A	TF27	Phosphate	3.11	13.3
ZCF-B	TF27	Phosphate	3.78	13.3

^{*} Non-certified method; value reported is the detection limit. Shading indicates a value above the CRL.

TRPH - Total Recoverable Petroleum Hydrocarbons

CRL - Certified Reporting Limit

APPENDIX C-12 CONTAMINATED SOIL METHOD BLANKS AND ASSOCIATED FIELD SAMPLES

Let	Method	Sample Identification	Dopth (ft)	Analyte	Concentration (µg/g)
YSN	LM19	Method Blank	NA	Acetone	0.020
		All samples		Acetone	<0.017
ZTB	LM19	Method Blank	NA	Acetone	0.040
		All samples		Acetone	<0.017
YSV	LM19	Method Blank	NA	Chloroform	0.00090
		All samples		Chloroform	<0.000 8 7
YSZ	LM19	Method Blank	NA	Chloroform	0.002
		All samples		Chloroform	<0.00087
ZTA	LM19	Method Blank	NA	Chloroform	0.001
				Trichlorofluoromethane	0.01
		SB-26-011	1.0	Chloroform	<0.00087
				Trichiorofluoromethane	0.00613
AJB	LM19	Method Blank	NA	Trichlorofluoromethane	0.0060
		All samples		Trichiorofluoromethene	<0.0059
AJC	LM19	Method Blank	NA	Trichlorofluoromethane	0.0080
		All samples		Trichloro(horomethane	<0.0059
ZOX	1	Method Blank	NA	TRPH	31.2
		SB-29- 010	4.0	TRPH	⊘ 1
		SB-29-007	4.0	TRPH	Q 1
		SB-29-028	4.0	TRPH	4 1
		SB-29-030	0.0	TRPH	Q 1
		SB-29-030	4.0	TRPH	33.2
		SB-29-031	4.0	TRPH	34.3
		SB-29-032	4.0	TRPH	44.7
		SB-29-033	0.0	TRPH	301
		SB-29-033	3.0	TRPH	41.4
		SB-29-034	4.0	TRPH	80. 5
		SB-29-035	4.0	TRPH	4 1
		\$3-29-036	3.0	TRPH	41.3
		SB-29-037	4.0	TRPH	33.5

APPENDIX C-12 CONTAMINATED SOIL METHOD BLANKS AND ASSOCIATED FIELD SAMPLES

Lot	Method	Sample Identification	Depth (ft)	Analyte	Concentration (µg/g)
ZIZ	JD19	Method Blank	NA	Arsenic	0.262
		AC-38-001	0.0	Arsenic	7.03
		AC-38-001	0.0	Arsenic	6.63
		SD-47-001	0.0	Arsenic	18.0
		SD-47-002	0.0	Arsenic	21.0
		SD-47-002	0.0	Arsenic	15.0
		SS-04-005	0.0	Arsenic	17.0
		SS-27-001	0.0	Arsenic	5.46
		SS-27-001	0.0	Arsenic	7.67
		SS-27-002	0.0	Arsenic	7.28
		SS-27-003	0.0	Arsenic	16.0
		SS-27-004	0.0	Arsenic	8.11
		SS-27-005	0.0	Arsenic	7.97
		SS-27-006	0.0	Arsenic	21.0
		SS-27-007	0.0	Arsenic	15.0
		SS-28-001	0.0	Arsenic	25.0
		SS-28-001	0.0	Amenic	24.0
		SS-28-002	0.0	Amenic	8.18
		SS-28-003	0.0	Amenic	32.0
		SS-28-004	0.0	Arsenic	35.0
		SS-28-005	0.0	Arsenic	45.0
		SS-28-006	0.0	Arsenic	28.0
		SS-28-007	0.0	Arsenic	20.0
		SS-28-008	0.0	Arsenic	30.0
		SS-34-001	0.0	Arsenic	17.0
		SS-34-002	0.0	Amenic	30.0
		SS-34-002	0.0	Amenic	38.0
		SS-34-003	0.0	Arsenic	8.69
		SS-34-004	0.0	Arsenic	7.73
		SS-34-005	0.0	Amenic	42.0
		SS-34-006	0.0	Amenic	18.0
		SS-38-001	0.0	Armenic	9.88
		SS-38-002	0.0	Amenic	7.34
		SS-38-003	0.0	Arsenic	6.25
		SS-38-004	0.0	Amenic	6.19

The following analytes will not be considered in method blank samples due to high background concustrations: Aluminum, Barium, Calcium, Iron, Potassium, Magnesium, Manganese, and Sodium.

TRPH - Total Recoverable Petroleum Hydrocarbons

APPENDIX C-13 CONTAMINATED WATER METHOD BLANKS AND ASSOCIATED FIELD SAMPLES

Let	Mathed	Sample Licetification	Dopth (ft)	Analyte	Concentration (tts/L)
ZPL	UM20	Method Blank	NA	Chloroform	0.52
		SW-47-001	0.0	Chloroform	1.00
ZRI	UM18	Method Blank	NA	Bis(2-ethylhexyl)phthalate	6.6
		SW-14-001	0.0	Bis(2-ethylhexyl)phthalate	<4.8
		SW-14-002	0.0	Bis(2-ethylhexyl)phthalate	<4.8

NA - Not Applicable

APPENDIX C-14
TRIP BLANK STROMARY

Sample ID	Sample Date	Method	Analyte(s)	Consentration	Units
SOBK8	5/31/92	8240	No Analyses Descred	NA	
SOBK10	6/9/92	8240	No Analytes Detected	NA ·	
SOBK2	6/11/92	8240	No Analytes Detected	NA NA	
SOBK3	6/12/92	8240	No Analyses Detected	NA	
SOBK5	6/15/92	8240	No Analytes Detected	NA	
SOBK4	6/16/92	8240	No Analytes Detected	NA	
SOBK6	6/16/92	8240	No Analytes Detected	NA	
SOBR9	6/17/92	8240	No Analytes Detected	NA	
SOBK7	6/18/92	8240	No Analyses Detected	NA	
SOBK11	6/23/92	8240	No Analytes Detected	NA	
SOBK12	6/23/92	824 0	No Analyses Detected	NA	
SOBK13	6/24/92	8240	No Analytes Detected	NA	
SOBK14	6/24/92	8240	No Analytes Detected	NA	
SOBK16	6/25/92	8240	No Analyses Detected	NA	٠
SOBK18	6/26/92	8240	No Analyses Detected	NA	
SOBK19	6/28/92	8240	No Analyses Descried	NA	
SOBIC20	6/29/92	8240	No Analyses Detected	NA	
SOBK22	6/30/92	8240	No Analyses Detected	NA	
SOBIC23	6/30/92	8340	No Analyses Detected	NA	
SOB125	7/1.92	8240	No Analyses Detected	NA	
SOB8234	7/2/92	8240	No Analyses Detected	NA	
SOBK26	7/1/92	8340	No Analyses Detected	NA	

APPENDEX C-14
TRIP BLANK SUMMARY

Semple ID	Sample Date	Mathed	Analyto(s)	Concentration	Umite
SOBK27	* 7/8/92	8240	No Analytes Detected	NA	
SOBK28	7/9/92	8240	No Analytes Distected	NA	
SOBK29	7/9/92	8240	No Analyses Detected	NA	
SOBK30	7/10/92	8240	No Analytes Detected	NA	
SOBK31	7/10/92	8240	No Analytes Detected	NA	
SOBK32	7/10/92	8240	No Analytes Detected	NA	
SOBK33	7/11/92	8240	No Analytes Detected	NA	
SOBK34	7/11/92	8240	No Analytes Detected	NA	
SOBK35	7/12/92	8240	No Analytes Descred	NA	
SOBK36	7/13/92	\$240	Toluene	0,73	<u>uo/L</u>
SS-37-010 (dup)	7/13/92	8240	Toluene	<0.0008	HO'S
SS-37-011	7/13/92	8240	Toluene	<0.0008	H8/2
SOBK37	7/13/92	8240	Toluene	0.60	ue/i
SW-14-002	7/13/92	8340	Toluens	<0.0008	14 0/ E
SOBK38	7/14/92	824 0	Toluene	0.73	yel
SS-28-002	7/14/92	8340	Toleras	<0.0008	140/8
SOBK39	7/15/92	8240	Toluene	1.03	no/L
SS-27-001 (dup)	7/15/92	8240	Toluene	<0.0008	140/5
\$\$-27-002	7/15/92	8340	Tologo	<0.000€	HO's
SS-27-003	7/15/92	8240	Tolore	<0.0008	Po/s
\$5-27-004	7/15/92	8340	Toluene	<0.000€	Pot
85-27-005	7/15/92	8240	Toluune	<0.0008	Hels
33-27-00 6	7/15/92	8240	Toluens	<0.000€	Hotel Hotel
93-27-007	7/15/92	2240	Toluene	<0.0008	and a

APPENDIX C-14 TRIP BLANK SUMMARY

Sample ID	Sample Date	Method	Amelyte(s)	Concentration	Units	
SOBK40	7/16/92	8240	Toluens	0.86	μ g/ L	
			Methylene Chloride	2.4	μ g/ L	
SW-47-001	7/16/92	8240	Toluene	<0.98	µg/L	
			Methylene Chloride	200.0	µg∕L	
SOBK41	7/21/92	8240	Toluene	0.54	ug/L	
SS-38-001	7/21/92	8240	Toluene	<0.0008	112/2	
AC-38-001	7/21/92	8240	Toluene	<0.0008	HE/E	
AC-38-001 (dup)	7/21/92	8240	Toluene	<0.0008	148/S	
SOBK42	7/21/92	8240	Toluene	0.75	ug/L	
SS-04-001	7/21/92	8240	Toluene	0.0049	14/2 2/24	
SS-04-002	7/21/92	8240	Toluene	0.002	HE/E	
SS-04-003	7/21/92	8240	Toluene	0.0028	14 9 /2	
SS-04-004	7/21/92	8240	Toluene	0.0033	Ma/E	
SS-04-005 (dap)	7/21/92	8240	Toluene	<0.0008	145/E	
SOBK43	7/29/92	8240	Toluene	0.88	μ ε/ L	
SB-01-006	7/29/92	8240	Toluene	<0.50	148/8	
SOBK50	7 <i>1</i> 29/92	8240	No Analyses Desected	NA		
SOBK44	7/30/92	8240	Toluene	0.98	ug/L	
SB-01-006	7/30/92	8240	Toluens	<0.50	148/2	
SOBK45	7/30/92	8240	Toluene	0.69	ug/L	
SB-01-007	7/30/92	8240	Tolugue	<0.50	HO'S	
WW2	7/30/92	8240	Toluene	<0.50	#0'1	
308K51	8/4/92	8340	Chiloroform	1.1_	no/L	
EP-01-96	8/4/92	8240	Chloroform	40.50	140/1	
EP-01-191 (dup)	8/4/92	8240	Chlorodorm	<0.50	POT	
SOBKS2	8/5/92	8340	No Analyses Detected	NA		
SOBK53	8/6/92	8240	No Analyses Desected	NA		

APPENDIX C-14
TRIP BLANK SUMMARY

Sample ID	Sample Date	Method	Amalyta(s)	Concentration	Units
SOBK54	8/7/92	8240	No Analyses Detected	NA	
SOBK55	8/8/92	8240	No Analytes Detected	NA	
SOBK56	8/9/92	8240	No Analyses Detected	NA	
SOBK57	8/10/92	8240	No Analytes Detected	NA	
SOBK58	8/11/92	8240	No Analytes Detected	NA NA	

NA - Not Applicable

APPENDEX C-15 **SOURCE WATER RESULTS**

Well Name	Date Sampled	Parameter Detected	Concentration (ug/L)
WW-3 (a)	5/6/92	Aromic	2.88
			2.77
		Barium	60.6
			61.9
		Calcium	98,800
			100,000
		Potassium	3,450
			3,470
		Magnesium	35,600
			36,100
		Manganese	12.6
			6.62
		Sodium	96,100
			97,80 0
		Nitrate+Nitrite	3,200
			3,200
		Phosphate	14.8
			16.8
		Chloride	240,000
			240,000
		Sulfate	97,300
			97,300
WW-2 (b)	7/30/92	Lead	7.48
		Barium	53.9
		Calcium	63,000
		Copper	8.99
		Potassium	2,030
		Magnesium	19,200
		Sodium	438,000
		Nitrate+Nitrite	2,800
		Chloride	66,000
		Sulfate	28,400

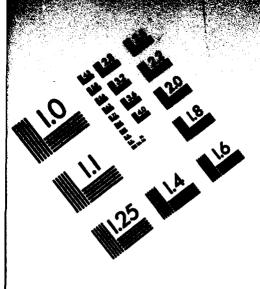
⁽a) - sampled and reported in deplicate
(b) - well used after WW-3 was struck by lightning, destroying the pump

Sample Type	Sample Identification	Depth (R)	Date Sampled	Analyte	Concentrat	ioe.	
Sample	EP-01-007	5.0	5/30/90	Lend	6.96 да	78	
receding EB			•	Arsenic	5.67 щ	/2	
		_		Zinc	30.2 да		
Equipment	EP-01-007	5.0	5/30/90	Arsenic	3.84 щ		
linsate Blank				Barium	62.0 щ		
				Calcium	95,700 щ		
				Chloride	227,000 щ		
				Lead	2.3 щ		
				Magnesium	35,600 да		
				Nitrite + Nitrate	3,110 щ		
				Potassium .	4,090 щ		
				Selenium	4.7 щ		
				Sodium	95,200 щ		
				Sulfate	99,200 щ	γL	
				Zinc	143 щ	/L	
Sample	EP-01-011	6.0	5/31/92	Amenic	5.19 µ	1/2	
receding EB				Copper	16.7 д	/2	
				Iron	8350 д	VE	
				Lead	6.86 д	18	
				Zinc	30.1 µ	V2	
Equipment	EP-01-011	6.0	5/31/92	Arsenic	4.26 µ	γL	
insate Blank				Barium	57.4 μ	/L	
				Calcium	98,600 µ		
				Chloride	242,000 μ	γL	,
				Copper	8.58 µ	٧L	,
				Iron	169 д	٧L	,
				Lead	2.9 μ	/L	,
				Magnesium	37,300 д	/L	,
				Nitries + Nitrate	3,200 µ	Æ	,
				Phosphate	17.9 д	yL.	,
				Potassium	4,350 µ		
				Selenium.	4 μ		
				Sodium	101,000 µ		
				Sulface	108,000 µ		
				Ziec	166 µ		

Sample Type	Sample Identification	Depth (ft)	Date Sampled	Analyte	Concentration
Sample	EP-01-014	7.0	6/1/92	Lead	203 μg/g
Preceding EB				Copper	1020 μg/g
				Iron	18600 μg/g
				Zinc	2260 μg/g
Equipment	EP-01-014	7.0	6/1/92	Lead	2.4 μg/L
Rinsate Blank				Selenium	3.5 µg/L
				Arsenic	2.77 μg/L
				Barium	60.2 μg/L
				Calcium	979,000 μg/L
				Copper	13.5 μg/L
				Iron	206 μg/L
				Potassium	4,240 μg/L
				Magnesium	37,000 μg/L
				Sodium	99,300 µg/L
				Zinc	163 μ g/ L
				Nitrite + Nitrate	3,390 μg/L
				Phosphate	16.5 μ g/ L
				Chloride	241,000 μg/L
				Sulfate	108,000 µg/L
Sample	EP-01-018	6.5	6/2/92	Lead	54000 μ <i>g/</i> g
receding EB				Zinc	5200 μg/g
Equipment	EP-01-018	6.5	6/2/92	Lead	6.(, μ g/ L
tinsate Blank				Barium	59.1 μ g/L
				Calcium	94,200 μg/L
				Potassium	3,710 μ g/L
				Magnesium	36,000 μg/L
				Sodium	92,700 μg/L
				Vanadium	13.2 μ g/ L
				Zinc	27.8 μg/L
				Nitrite + Nitrate	2,910 µg/L
				Phosphate	15.9 μ g/ L
				Chloride	236,000 µg/L
				Sulface	106,000 µg/L

Sample Type	Sample Identification	Depth (ft)	Date Sampled	Analyte	Concent	ation	1
Sample	EP-01-021	2.0	6/3/92	Amenic	4.40	H8/2	_
Preceding EB				Iron	16200		
				Lead	58.0	HE/E	
Equipment	EP-01-021	2.0	6/3/92	Arsenic	4.37	Hg/L	
Rinsate Blank				Barium	60.0	Hg/L	*
	•			Calcium	99,600	µg/L	•
				iron	44.3	µg/L	
				Lead	1.5	Hg/L	
				Magnesium	37,600	Hg/L	
				Potassium	4,550	μ <mark>e/L</mark>	
				Sodium	98,700	µg/L	*
				Nitrite + Nitrate	3,160	µg/L	*
				Phosphate	14.5	µg/L	•
				Chloride	243,000	Hg/L	•
				Sulfate	110,000	µg/L	•
			·				4
Sample	EP-01-025	4.5	6/4/92	Arsenic	4.20	HE/E	•
Preceding EB				iron	45200		
Equipment	EP-01-025	4.5	6/4/92	Selenium	3.3	μ ε/ L	ì
Rinsate Blank				Arsenic		μg/L	
				Barium		HE/L	
				Calcium	97,900		
				Iron		He/L	
				Potassium	4,350	He/L	
				Magnesium	36,400		
				Sodium	97,000		
				Nitrite + Nitrate	3,120		
				Phosphate		µg/L	
				Chloride	230,000		
				Sulfate	100,000		

TOOELE ARMY DEPORT-NORTH AREA SUSPECTED RELEASES SHINDS UCLUME 2 APPRENDICES A - J REVISION(U) MONTGOMERY HATSON HALHUT CREEK CA DEC 93 XA-USAEC AD-A292 574 DAAA15-90-D-0011 NL UNCLASSIFIED





Accordation for information and image Management

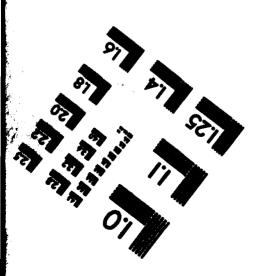
1100 Wayne Avenue, Suite 1100 Silver Spring, Maryland 20910 301/587-8202



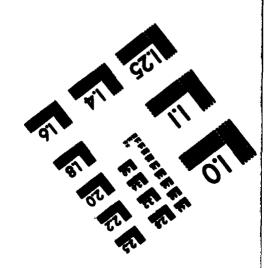
Centimeter



1.0 1.25 1.4 1.6



MANUFACTURED TO AIIM STANDARDS
BY APPLIED IMAGE, INC.



Semple Type	Sample Identification	Depth (ft)	Date Sampled	Analyte	Concentration
Sample	EP-01-029	5.0	6/9/92	Lead	19.0 µg/g
receding EB				•	
Equipment	EP-01-029	5.0	6/9/92	Lead	1.4 μ g/ L
Rinsate Blank				Arsenic	2.77 μg/L
	·			Barium	62.0 μg/L
				Calcium	96,400 μg/L
				Potassium	4,300 μg/L
				Magnesium	35.900 µg/L
				Sodium	95,500 μg/L
				Nitrite + Nitrate	3,020 µg/L
				Phosphate	14.5 μg/L
				Chloride	235.000 μg/L
				Sulfate	101,000 μ g/ L
Sample receding EB	EP-01-030	3.0	6/10/92	Lead	130 μ g/g
Equipment	EP-01-030	3.0	6/10/92	Lead	1.5 µg/L
insate Blank				Barium	61.4 µg/L
				Calcium	95,600 µg/L
				Potassium	4,180 µg/L
				Magnesium	35,900 μg/L
				Sodium	95,500 μg/L
				Nitrite + Nitrate	3,100 μ g/ L
•	•		•	Chloride	233.000 μg/L
				. Sulfate	101.000 μ g/ L
Sample	EP-01-034	3.5	6/11/92	Amenic	5.50 μg/g
receding EB				Iron	33700 µg/g
				Zinc	53.6 µg/g
Equipment	EP-01-034	3.5	6/11/92	Arsenic	4.48 µg/L
insate Blank				Barium	62.0 µg/L
				Calcium	95,400 µg/L
				iron .	44.6 µg/L
				Potassium	4,100 µg/L
				Magnesium	35,800 µg/L
				Sodium	95.400 µg/L
				Zinc Nitrite + Nitrate	187 µg/L
				Phosphate	2,670 μg/L 13.8 μg/L
				Caloride	230,000 µg/L
				Sulfate	99,600 µg/L

Sample Type	Sample Identification	Dopth (ft)	Date Sampled	Azalyts	Concentration
Sample	SB-29-005	0.0	6/11/92	Lead	28.0 μg/g
Preceding EB			·	. Arsenic	9.05 μg/g
Equipment	SB-29-005	0.0	6/11/92 ·	Lead	1.5 µg/L
Rinsate Blank				Arsenic	3.41 µg/L
				Barkun	63.0 µg/L 4
				Calcium	95,900 μg/L ⁴
				Potassium	4,240 µg/L 4
				Magnesium	36,100 µg/L 4
				Sodium	96.400 µg/L 1
				Nitrite + Nitrate	3,080 µg/L
				Phosphate	16.5 μ g/L 1
				Chloride	228,000 μg/L 1
				Sulfate	101,000 μ g/ L
Sample	EP-01-038	0.5	6/12/92	Amenic	2.69 µg/g
Preceding EB				Load	140 µg/g
				Zinc	1600 µg/g
Equipment	EP-01-038	0.5	6/12/92	Lead	1.8 µg/L
Ringage Blank				Amenic	3.52 µg/L
				Barium	62.8 μg/L ·
				Calcium	97,100 μg/L
				Potessium	4,360 µg/L
				Magnesium	36,200 μg/L
				Sodium	96,600 µg/L
				Zinc	, ,
		•	•	Nitrite + Nitrate	181 µg/L
					2,580 µg/L
				Chloride Sulfate	240,000 µg/L 1 101,000 µg/L
Sample	SB-29-017	3.0	6/12/92	Amenic	9.15 µg/g
Preceding EB		-13	~ ~ ~	Zinc	25.A µg/g
Equipment	SB-29-017	3.0	6/12/92	Assunic	2.99 µg/L
Rineste Blank				Bactum Colologo	Jan (18)
				Calcium	97,300 pg/L
				Potassium.	4.070 pgf.
				Magnesium	36,400 pg/L
				Sodium Zinc	97,600 pg/L 30.3 pg/L

Sample	Sample	Depth	Date	Analyte	Concentration
Туре	Identification	(R)	Sempled		
Sample	EP-01-042	2.0	6/13/92	Lead	932 µ g/ g
receding EB				Vanadium	29.3 µg/s
•	•			Zinc	131 μg/g
Equipment	EP-01-042 .*	2.0	6/13/92	Lead	7.0 µg/I
insae Blank				Arsetic	3.2 μg/L
				Barium	59.9 μ g/ L
				Calcium	939,000 µg/L
				Potassium	3.960 µg/L
				Magnesium	35 ,500 μg/L
				Sodium	92,800 µg/I
				Vanadium	12.4 μ g/ Ι
				Zinc	172 µg/L
				Nitrite + Nitrate	2,780 µg/L
				Phosphate	13.8 μ g/ ί
				Chloride	234,000 μg/L
				. Sulfate	99,600 µg/I
Sample	SB-29-024	0.0	6/13/92	Lead	7.65 µ g/ j
receding EB				Zinc	20.3 µg/s
Equipment	SB-29-024	0.0	6/13/92	Lead	1.4 µg/l
insate Blank				Barium	59.7 μ g/ I
				Calcium	92. 3 00 μ g/ 1
				Potassium	3.620 μg/l
				Magnesium	35.200 μg/I
				Sodium	92,100 μg/I
				Zinc	59.7 μ g/ 1
Sample	EP-01-046	3.0	6/14/92	Leed	اهِر 19.0
receding EB				Zinc	61.8 µg/
Squipment	EP-01-046	3.0	6/14/92	Lead	3.50 μg/l
insate Blank				Barium	60.1 µg/
				Calcium	91,200 µg/
				Potassium	3,600 µg/
				Magnesium	34,700 µg/
				Sodium	90,900 µg/
				Zinc	29.3 µg/
				Nitrite + Nitrate	2,990 µg/
				Phosphate Chloride	14.5 µg/ 233,000 µg/

Sample Type	Semple Identification	Depth (ft)	Date Sampled	Axelyte	Concentration
Sample	SJB-29-009	0.0	6/14/92	Copper	16.6 µg/g
Preceding EB	•			Vanadium	16.2 µg/g
	•			Zinc	68.3 µg/g
Equipment	SB-29-009	0.0	6/14/92	. Barium	58.1 µg/L *
Rinease Blank				Calcium	91,200 µg/L *
				Copper	11.3 µg/L
				Potassium	3,760 μ g/ L *
				Magnesium	34,500 µg/L *
				Sodium	89,800 µg/L *
		•		Vanadium	14.2 µg/L
				Zinc	47.7 μg/L
Sample	EP-01-051	2.5	6/15/92	Lead	130 µg/g
Preceding EB				Vanadium	19.4 µg/g
•				Zlac	791 µg/g
Equipment	EP-01-051	2.5	6/15/92	Leed	2.3 µg/L
Rinsee Blank				Barium	61.8 µg/L
				Calcium	92,600 µg/L *
				Potassium	3,500 µg/L *
				Magnesium	35,100 µg/L *
				Sodium	92,400 µg/L *
				Vanadium	11.6 µg/L
				Zinc	26.6 µg/L
				Nitrite + Nitrate	3,000 µg/L *
				Chloride	233,000 µg/L *
				Sulface	99,800 μg/L *
Sample	SB-29-028	0.0	6/15/92	Vanadium	14.8 µg/g
Preceding EB				Zinc	38.8 µg/g
Equipment	SB-29-028	0.0	6/15/92	Barium	59.3 μg/L •
Rinsass Blank				Calcium	94,500 µg/L *
				Potassium	3,900 µg/L •
				Magnetium	36,000 µg/L *
				Sodium	92,600 pg/L *
				Vanadium	12.3 µg/L
				Zinc	39.3 µg/L

Semple Type	Sample Identification	Depth (ft)	Date Sempled	Analyte	Concentration
Sample	EP-01-053	3.5	6/16/92	Amenic	< 98 he/s
Preceding EB				Zinc	He/E
Equipment	EP-01-053	3.5	6/16/92	Araenic	A Hell
Ringate Blank				Barium	66.0 µg/L 4
				Calcium	94,400 µg/L 1
				Potassium	3.520 μg/L ⁴
				Magnesium	35,500 μg/L ¹
-				Sodium	93.500 µg/L
				Zinc	27.8 µg/L
				Nitrite + Nitrate	3.000 µg/L
				Phosphate Chloride	13.8 µg/L 1
				Sulfate	233,000 µg/L 1
		,		States	10,000 µg/L 1
Sample	EP-01-055	2.0	6/17/92	Lead	9. 82 μ g/g
Preceding EB				Vanadium	6.06 µg/g
	•	_		Zinc	41.0 µg/g
Equipment	EP-01-055	2.0	6/17/92	Lead	3.8 µg/L
Rinsate Blank				Berium	60.0 µg/L
				Calcium	93,800 pg/L
				Potassium.	3,550 µg/L
				Magnesium	35.300 μg/L
				Sodium	92.300 μg/L
				Vanadium	12.4 µg/L
		•		Ziec	25.8 µg/L
				Nitrite + Nitrate	2,990 μg/L
				Phosphate Chloride	15.9 µg/L
				Sulface	234,000 µg/L
	•			Sense	101,000 µg/L
Sample	SB-29-031	0.0	6/17/92	Iron	10000 µg/g
Proceding EB				Vanadium	19.3 µg/g
		••		Ziec	57.6 µg/g
Equipment	SB-29-031	0.0	6/17/92	Barium	Jan 970
Rineste Blank				Calcium	94,900 µg/L
				leon	51.0 pg/L
		•		Potagalum	3.510 pgf.
				Magnesium	35,900 pg/L
				Sodium	93,600 pgc
				Vanedium	12.3 pg/L
				Ziac	GLS part

Sample	Sample Identification	Depth (ft)	Date Sampled	Amelyte	Concentration	
Туре		(26)				
Sample	EP-01-059	0.0	6/18/92	Lead	40.1 μg/ ₁	ľ
Proceding EB				Vanadium	11.9 µg/ ₁	ß
				Zinc	254 µg/ ₁	
Equipment	EP-01-059	0.0	6/18/92	Load	2.5 µg/1	
Riceate Blank				Baciene	59.5 µg/l	
				Calcium	92,300 µg/I	
				Potassium.	3,440 µg/1	. '
				Magnesium	34,900 µg/I	
				Sociem	91,600 µg/l	
				Vanadium	11.7 µ g/ 1	
				Zinc	27.5 µg/l	
				Nitrite + Nitrate	2,940 µg/l	
				Phosphate	13 .8 µg/ 1	
				Chloride	246,000 μg/l	
				Sulfate	97,000 µg/l	١
Semple	EP-01-064	5.0	6/23/92	Reviews	235 µg/	•
Preceding EB				Magnesium	11000 µg/	
				Phosphate	750 µg/	
				Chloride	27.7 µg/	
Equipment	EP-01-064	5.0	6/23/92	Barium	62.2 µg/	
Rinsate Blank				Calcium	97,600 µg/	
				Potassium	3,140 µg/	
				Magnesium	36,900 µg/	
				Sodium	97,800 µg/	
·	•			Nitrite + Nitrate	3,040 µg/	
				Phosphate	20.4 µg/	
				Chloride	251,000 pg/	
				Salface	96,700 µg/	
						-
Sample	SB-26-007	0.0	6/23/92	Land	66.4 µg	
Preceding EB				Zinc	178 μφ	2
Equipment Riness Blank	SB-26-007	0.0	6/23/92	Lond Borium	7.3 pg/	
Paris Paris				Calcium	63.6 pg	
					99,900 pg	
				Potnesium Magnesium	3,300 pg	
				Magnoslam	37,700 pg	
		•		Softun	99,300 pa	
				Zinc	34.3 pg	L

Equipment EP-01-069 5.5 6/24/92 Barium 63.7 µg/L	Sample Type	Sample Identification	Depth (ft)	Date Sampled	Analyte	Concentration
Calcium 100,000 µg/L Potassium 3,510 µg/L Magnesium 37,800 µg/L Sodium 99,100 µg/L Sodium 99,100 µg/L Nitris + Nitrate 2,960 µg/L Phosphate 20.4 µg/L Chloride 251,000 µg/L Sulfate 98,700 µg/L Sulfate 98,700 µg/L Chloride 251,000 µg/L Sulfate 98,700 µg/L Chloride 251,000 µg/L Sulfate 98,700 µg/L Sulfate 98,700 µg/L Chloride 157, µg/L Lead 56.4 µg/g Zinc 396 µg/g Lead 15.7 µg/L Calcium 97,800 µg/L Iron 92.1 µg/L Potassium 37,000 µg/L Sodium 96,800 µg/L Zinc 109 µg/L Sodium 96,800 µg/L Zinc 74.4 µg/g Equipment EP-01-071 2.5 6/25/02 Arsenic 2.10 µg/g Potassium 37,000 µg/L Semple EP-01-071 2.5 6/25/02 Arsenic 2.10 µg/g Potassium 37,000 µg/L Zinc 74.4 µg/g Potassium 37,000 µg/L Zinc 74.4 µg/g Potassium 37,000 µg/L Zinc 77,600 µg/L Sodium 967,000 µg/L Zinc 37,600 µg/L Zinc 77,600 µg/L Sodium 967,000 µg/L Zinc 37,600 µg/L Zinc 37,600 µg/L Zinc 37,600 µg/L Zinc 37,600 µg/L Zinc 37,600 µg/L Zinc 44.1 µg/l Nitrite + Nitrate 2,760 µg/L Nitrite - Nitrate 2,760 µg/L Nitrite + Nitrite 2,760 µg/L Nitrite + Nitrite 2,760 µg/L Nitrite + Nitrite 2,760 µg/L Nitrite + Nitrite 2,760 µg/L Nitrite + Nitrite 2,760 µg/L Nitrite + Nitrite 2,760 µg/L Nitrite + Nitrite 2,760 µg/L Nitrite + Nitrite 2,760 µg/L Nitrite + Nitrite 2,760 µg/L Nitrite + Nitrite 2,760 µg/L Nitrite + Nitrite 2,760 µg/L Nitrit	Sample Preceding EB	EP-01-069	5.5	6/24/92	Zinc	55.5 µg/g
Potassium 3,510 tg/L Magnesium 37,800 tg/L Zinc 50.0 tg/L Zinc 50.0 tg/L Phosphate 2,960 tg/L Chloride 251,000 tg/L Sulfate 98,700 tg/L Sulfate 98,700 tg/L Sumple SB-26-012 0.0 6/24/92 tron 5460 tg/L Sulfate 98,700 tg/L Sumple SB-26-012 0.0 6/24/92 tron 5460 tg/L Equipment SB-26-012 0.0 6/24/92 Lend 56.4 tg/L Equipment SB-26-012 0.0 6/24/92 Lend 15.7 tg/L Equipment 61.4 tg/L Rarium 61.4 tg/L Potassium 39,00 tg/L Anguesium 37,000 tg/L Potassium 3900 tg/L Sodium 96,800 tg/L Zinc 109 tg/L Sample EP-01-071 2.5 6/25/02 Arsenic 2.10 tg/g Equipment EP-01-071 2.5 6/25/02 Arsenic 4.05 tg/L Rarium 61.5 tg/L Potassium 37,000 tg/L Zinc 74.4 tg/g Potassium 37,000 tg/L Zinc 74.4 tg/g Potassium 37,000 tg/L Zinc 74.4 tg/g Potassium 37,000 tg/L Rarium 61.5 tg/L Rarium 61.5 tg/L Potassium 37,000 tg/L Zinc 74.4 tg/g Potassium 37,000 tg/L Rarium 37,000 tg/L Zinc 74.0 tg/l Anguestium 37,000 tg/L Zinc 44.1 tg/L Nitrite + Nitrate 2,760 tg/P Phosphate 18.3 tg/l Phosphate 18.3 tg/l Phosphate 18.3 tg/l	Equipment	EP-01-069	5.5	6/2A/92	Barium	63.7 μ ε/ L
Magnesium 37,800 µg/L Sodium 99,100 µg/L Zinc Nitrite + Nitrate 2,960 µg/L Phosphate 20.4 µg/L Caloride 251,000 µg/L Sulfate 98,700 µg/L Sulfate 98,700 µg/L Sulfate 98,700 µg/L Sumple SB-26-012 0.0 6/24/92 Iron 5460 µg/g Lend 56.4 µg/g Zinc 396 µg/g Equipment SB-26-012 0.0 6/24/92 Lend 15.7 µg/L lineate Blank Calcium 97,600 µg/L Iron 92.1 µg/L Potassium 34/90 µg/L Magnesium 37,000 µg/L Sodium 96,000 µg/L Zinc 109 µg/L Sumple EP-01-071 2.5 6/25/02 Arsenic 2.10 µg/g Potassium 3,600 µg/L Zinc 74.4 µg/g Equipment EP-01-071 2.5 6/25/02 Arsenic 4.05 µg/L Potassium 3,600 µg/L Sumple EP-01-071 2.5 6/25/02 Arsenic 3,600 µg/L Potassium 3,600 µg/L Calcium 97,600 µg/L Zinc 74.4 µg/g Potassium 3,500 µg/L Potassium 3,500 µg/L Sodium 967,000 µg/L Sodium 967,000 µg/L Zinc 44.1 µg/R Niterie + Nitrate 2,760 µg/L Zinc 44.1 µg/R Niterie + Nitrate 2,760 µg/R Zinc 18.3 µg/L Caloride 254,000 µg/L	Rinsate Blank			•	Calcium	100,000 µg/L
Sodium 99,100						3,610 µg/L
Zinc 30.0 µg/L Nitrite Nitrane 2.960 µg/L Nitrite Nitrane 2.960 µg/L Chloride 251,000 µg/L Sulfane 98,700 µg/L Sulfane 98,700 µg/L Sulfane 98,700 µg/L Sulfane 98,700 µg/L Sulfane 98,700 µg/L Sunc 396 µg/s Equipment SB-26-012 0.0 6/24/92 Lend 56.4 µg/g Equipment SB-26-012 0.0 6/24/92 Lend 15.7 µg/L Lineane Blank Calcium 97,600 µg/L Iron 92.1 µg/L Ron 97,600 µg/L Non 96,800 µg/L Zinc 109 µg/L Sample EP-01-071 2.5 6/25/02 Arsenic 2.10 µg/g Proceeding EB Equipment EP-01-071 2.5 6/25/02 Arsenic 4.05 µg/L Lineane Blank Calcium 97,600 µg/L Lineane Blank Calcium 97,600 µg/L Lineane Blank Calcium 97,600 µg/L Lineane Blank Calcium 97,600 µg/L Lineane Blank Calcium 97,600 µg/L Nitrite Nitrane 2,760 µg/L Zinc 44.1 µg/s Nitrite Nitrane 2,760 µg/L Procephane 18.3 µg/l Zinc 44.1 µg/s Nitrite Nitrane 2,760 µg/L Procephane 18.3 µg/l Procephane 18.3 µg/l					_	37,800 μg/L
Nitrine + Nitrane 2,960 µg/L Phosphate 20.4 µg/L Chloride 251,000 µg/L Sulfane 98,700 µg/L Sulfane 98,700 µg/L Sulfane 98,700 µg/L Sulfane 98,700 µg/L Sulfane 98,700 µg/L Sulfane 98,700 µg/L Sunc 396 µg/g Equipment SB-26-012 0.0 6/24/92 Lend 55.4 µg/g Zinc 396 µg/L Equipment SB-26-012 0.0 6/24/92 Lend 15.7 µg/L Incon 92.1 µg/L Potassium 37,000 µg/L Iron 92.1 µg/L Potassium 34/90 µg/L Magnesium 37,000 µg/L Sample EP-01-071 2.5 6/25/02 Arsenic 2.10 µg/g Potassium 61.5 µg/L Lineare Blank Equipment EP-01-071 2.5 6/25/02 Arsenic 4.05 µg/L Lineare Blank Calcium 97,600 µg/L Barium 61.5 µg/L Calcium 97,600 µg/L Potassium 3,680 µg/L Rodium 970,000 µg/L Sodium 967,000 µg/L Sodium 967,000 µg/L Zinc 44.1 µg/R Nitrite + Nitente 2,760 µg/L Zinc 44.1 µg/R Nitrite + Nitente 2,760 µg/L Picophate 1.13 µg/R						99,100 μ g/ L
Phosphate 20.4 µg/L Chloride 251,000 µg/L Sulface 98,700 µg/L Sulface 98,700 µg/L Sulface 98,700 µg/L Sulface 98,700 µg/L Succiding EB Lend 56,4 µg/g Equipment SB-26-012 0.0 6/24/92 Lend 15.7 µg/L Equipment SB-26-012 0.0 6/24/92 Lend 15.7 µg/L Calcium 97,600 µg/L Iron 92.1 µg/L Potassium 3490 µg/L Magnesium 37,000 µg/L Sodium 96,800 µg/L Zinc 109 µg/L Sample EP-01-071 2.5 6/25/02 Arsenic 2.10 µg/g Equipment EP-01-071 2.5 6/25/02 Arsenic 4.05 µg/L Lineare Blank Calcium 97,600 µg/L Equipment EP-01-071 2.5 6/25/02 Arsenic 4.05 µg/L Equipment EP-01-071 2.5 6/25/02 Arsenic 3.560 µg/L Sodium 97,600 µg/L Potassium 37,000 µg/L Sodium 97,600 µg/L Potassium 37,000 µg/L Sodium 967,000 µg/L						50.0 μ g/ L
Chloride 251,000 µg/L Sulfate 98,700 µg/L Sulfate 98,700 µg/L Sulfate 98,700 µg/L Sulfate 98,700 µg/L Sulfate 98,700 µg/L Proceding EB					·	2,960 μ g/L
Sample SB-26-012 0.0 6/24/92 iron 5460 µg/g Precoding EB Lend 56.4 µg/g Zinc 396 µg/g Equipment SB-26-012 0.0 6/24/92 Lend 15.7 µg/l insente Blank Barium 61.4 µg/g Calcium 97,600 µg/l Iron 92.1 µg/l Potassium 37,000 µg/l Nagnesium 37,000 µg/l Sample EP-01-071 2.5 6/25/02 Arsenic 2.10 µg/g Equipment EP-01-071 2.5 6/25/02 Arsenic 4.05 µg/l insente Blank Calcium 97,600 µg/l Sample EP-01-071 2.5 6/25/02 Arsenic 3.660 µg/l Requipment EP-01-071 2.5 6/25/02 Arsenic 3.660 µg/l Sample EP-01-071 2.5 6/25/02 Arsenic 4.05 µg/l Sample EP-01-071 2.5 6/25/02 Arsenic 3.660 µg/l Nagnesium 37,000 µg/l Sodium 967,000 µg/l Nagnesium 37,000 µg/l Sodium 967,000 µg/l Aliente + Nitrate 2.760 µg/l Pitrite + Nitrate 2.760 µg/l Nitrite + Nitrate 2.760 µg/l Nitrite + Nitrate 2.760 µg/l				•	•	• • •
Sample SB-26-012 0.0 6/24/92 iron 5460 µg/g Preceding EB 2 Lend 56.4 µg/g Zinc 396 µg/g Equipment SB-26-012 0.0 6/24/92 Lend 15.7 µg/L Linesse Blank Barium 61.4 µg/L Calcium 97,600 µg/L Potassium 34/90 µg/L Magnesium 37,000 µg/L Sodium 96,800 µg/L Zinc 109 µg/L Zinc 109 µg/L Equipment EP-01-071 2.5 6/25/02 Arrenic 2.10 µg/g Equipment EP-01-071 2.5 6/25/02 Arrenic 4.05 µg/L Linesse Blank 61.5 µg/L Calcium 97,600 µg/L Calcium 97,600 µg/L Calcium 97,600 µg/L Calcium 97,600 µg/L Magnesium 3,660 µg/L Magnesium 37,000 µg/L Sodium 967,000 µg/L Arrenic 4.11 µg/g Notassium 37,000 µg/L Calcium 97,600 µg/L Nerte + Nitrate 2,760 µg/L Potassium 37,000 µg/L Sodium 967,000 µg/L Calcium 967,000 µg/L Calcium 967,000 µg/L Sodium 967,000 µg/L Calcium 967,000 µg/L Calcium 967,000 µg/L Sodium 967,000 µg/L Calcium 967,000 µg/L Calcium 967,000 µg/L						
Lead \$6.4 µg/g Zinc 396 µg/g Zinc 396 µg/g Zinc 396 µg/g Zinc 396 µg/g Zinc 396 µg/g Zinc 396 µg/g Zinc 396 µg/g Zinc 396 µg/g Zinc 396 µg/g Zinc 396 µg/g Zinc 396 µg/g Zinc 396 µg/g Zinc 3490 µg/g Zinc 109 µg/g Zinc 109 µg/g Zinc 2.10 µg/g Zinc 2.10 µg/g Zinc 74.4 µg/g Zinc 74.4 µg/g Zinc 2.10 µg/g 2.10 µg/					Sulfate	98,700 μg/L
Lead	Sample	SB-26-012	0.0	6/24/92	Iron	5460 µg/g
Equipment SB-26-012 0.0 6/24/92 Lead 15.7 μg/L	receding EB				Lead	56.4 µg/g
Equipment SB-26-012 0.0 6/24/92 Lend 15.7 µg/L instance Blank 61.4 µg/L Bartum 61.4 µg/L Calcium 97,600 µg/L Iron 92.1 µg/L Potassium 37,000 µg/L Sodium 96,800 µg/L Zinc 109 µg/L Zinc 109 µg/L Equipment EP-01-071 2.5 6/25/02 Arsenic 2.10 µg/g recording EB EP-01-071 2.5 6/25/02 Arsenic 4.05 µg/L Bartum 61.5 µg/L Bartum 61.5 µg/L Calcium 97,600 µg/L Galcium 97,600 µg/L Galcium 37,000 µg/L Galcium 37,000 µg/L Galcium 37,000 µg/L Galcium 37,000 µg/L Galcium 37,000 µg/L Galcium 37,000 µg/L Galcium 37,000 µg/L Galcium 9967,000 µg/L Galcium 9967,000 µg/L Galcium 10,0	-				Zinc	
Barium 61.4	Equipment	SB-26-012	0.0	6/24/92	Lead	
Iron 92.1 μg/L	ineste Blank				Barium	61.4 µg/L
Potassium 3490 μg/L Magnesium 37,000 μg/L Sodium 96,800 μg/L Zinc 109 μg/L Zinc 109 μg/L Zinc 74.4 μg/g Equipment EP-01-071 2.5 6/25/02 Arsenic 4.05 μg/L Equipment EP-01-071 2.5 6/25/02 Arsenic 4.05 μg/L Calcium 97,600 μg/L Potassium 3,680 μg/L Potassium 37,000 μg/L Sodium 967,000 μg/L Zinc 44.1 μg/L Nterite + Nitente 2,760 μg/L Phosphate 18.3 μg/L Chloride 254,000 μg/L					Calcium	97,600 μg/L
Magnesium 37,000 μg/L Sodium 96,800 μg/L Zinc 109 μg/L Zinc 109 μg/L Zinc 109 μg/L Zinc 2.10 μg/g 2.10 μg/g 2.10 μg/g 2.10 μg/g 2.10 μg/g 2.10 μg/g 2.10 μg/g 2.10 μg/g 2.10 μg/g 2.10 μg/g 2.10 μg/g 2.10 μg/L 2.10 μg/g 2					kron	92.1 µg/L
Sodium 96,800 μg/L Zinc 109 μg/L					Potassium	3490 µg/L
Zinc 109 μg/L					Magnesium	37,000 μg/L
Sample EP-01-071 2.5 6/25/02 Arsenic 2.10 μg/g					Sodium	96,800 µg/L
Preceding EB Zinc 74.4 µg/g Equipment EP-01-071 2.5 6/25/02 Amenic 4.05 µg/l Lineate Blank Barlum 61.5 µg/l Calcium 97,600 µg/l Potassium 37,000 µg/l Magnesium 37,000 µg/l Sodium 967,000 µg/l Zinc 44.1 µg/l Nitrite + Nitrate 2,760 µg/l Phosphate 18.3 µg/l Chloride 254,000 µg/l					Zinc	109 μ g/ L
Preceding EB Zinc 74.4 μg/g Equipment EP-01-071 2.5 6/25/02 Arzenic 4.05 μg/L Lineate Blank Barium 61.5 μg/L Calcium 97,600 μg/L Potassium 37,000 μg/L Magnesium 37,000 μg/L Sodium 967,000 μg/L Zinc 44.1 μg/L Nitrite + Nitrate 2,760 μg/L Phosphate 18.3 μg/L Chloride 254,000 μg/L	Sample	EP-01-071	2.5	6/25/02	Amenic	2.10 u <i>eje</i>
Barium 61.5 12/1 Calcium 97,600 12/1 Potassium 3,680 12/1 Magnesium 37,000 12/1 Sodium 967,000 12/1 Zinc 44.1 12/1 Nitrite + Nitrate 2,760 12/1 Phosphate 18.3 12/1 Calcide 254,000 12/1 12/1 13/1	receding EB				Zinc	74.4 µg/g
Calcium 97,600 μg/L Potassium 3,680 μg/L Magnesium 37,000 μg/L Sodium 967,000 μg/L Zine 44.1 μg/L Nitrite + Nitrate 2,760 μg/L Phosphate 18.3 μg/L Chloride 254,000 μg/L		EP-01-071	2.5	6/25/02		4.05 μg/L
Potassium 3,680 μg/l Magnesium 37,000 μg/l Sodium 967,000 μg/l Zinc 44.1 μg/l Nitrite + Nitrate 2,760 μg/l Phosphate 18.3 μg/l Chloride 254,000 μg/l	inter Black					
Magnesium 37,000 μg/1 Sodium 967,000 μg/1 Zinc 44.1 μg/1 Nitrite + Nitrate 2,760 μg/1 Phosphate 18.3 μg/1 Chloride 254,000 μg/1						
Sodium 967,000 μg/1 Zinc 44.1 μg/1 Nitrite + Nitrate 2,760 μg/1 Phosphate 18.3 μg/1 Chloride 254,000 μg/1						
Zinc 44.1 μg/1 Nitrite + Nitrate 2,760 μg/1 Phosphate 18.3 μg/1 Chloride 254,000 μg/1					_	
Nitrite + Nitrate 2,760 μg/1 Phosphate 18.3 μg/1 Chloride 254,000 μg/1						• •
Phosphate 18.3 μg/1 Chloride 254,000 μg/1						
Chloride 254,000 μg/1						
					•	

Sample	Sample	Depth	Date	Analyte	Concentrat	ion	
Туре	Identification	(R)	Sampled				
Sample	SB-45-001	13.0	6/25/92	Ziac	47.0 µ		
Preceding EB		•		Iron	12700 µ	VZ	
Equipment	SB-45-001	13.0	6/25/92	Barium	63.0 µ	g/L	•
Rinsaer Blank				Calcium	99,000 µ	g/L	*
				Iron	45.3 μ	g/L	
				Potassium.	3.510 µ	y L	•
				Magnosium	37,800 µ	g/L	*
				Sodium	98.600 µ	g/L	*
				Zinc	59.1 µ	s/ L	
Sample	EP-01-074	2.5	6/26/92	Lend	28 60 μ	2/2	
receding EB				Zinc	2930 µ		
Equipment	EP-01-074	2.5	6/26/92	Load	101 µ	gL	4
lineate Blank				Barium	64.6 µ		
				Calcium	100,000 µ	g/L	• 1
				Potestium.	2,980 p		•
			•	Magnesium	38,460 p	g/L	•
				Sodium	102,000 µ	WL.	•
				Zinc	42.8 µ	W/L	
				Nitrite + Nitrate	2,560 µ	lg/L	•
				Phosphate	19.7 µ	lg/L	•
	•			Chloride	250,000 µ	Ig/L	•
				Sulface	101,000 p		
Semple	SB-42-006	0.0	6/26/92	Arsenic	20.0 ;	rajs	
receding EB			- 	Copper	5700		
				Iron	23700		
				Load	39000	ante	
				Ziec	1590	uale	
Equipment	SB-42-006	0.0	6/26/92	Load	4.2	19/L	
Rineste Blank		•		Americ	3.41		
				Bartom	64.5	_	•
				Calcium	101,000	_	
				Copper	8.86		
				kon	51.4		
				Ponesium	3,570	_	
				Magnesium	38,200		
				Sodium	100,000		
				300	torboo i		, -

Sample	Sample	Depth	Date	Analyte	Concentration
Туре	Identification	(ft)	Sampled		
Sample	SB-42-010	0.0	6/27/92	Copper	1360 µg/g
Preceding EB				iron	10600 µg/g
			·	Lead	8900 µg/g
				Zinc	1060 µg/g
Equipment	SB-42-010	0.0	6/27/92	Lead	3.30 µg/L
linsase Blank				Barium	64.7 µg/L
				Calcium	98,000 µg/L
				Copper	11.4 µg/L
				Iron	42.0 µg/L
				Potassium	3.350 µg/L
				Magnesium	36,900 μg/L
				Sodium	96,900 μg/L
				Zinc	50.0 μ g/ L
Sample	EP-01-088	0.0	6/ 28/ 92	Iron	8310 µg/g
receding EB	-01-000	0.0		Lead	1450 µg/g
Equipment	EP-01-088	0.0	6/28/92	Lead	4.0 µg/L
linease Blank			45575	Barinm	58.5 μg/L
				Calcium	99,700 µg/L
				lm	48.8 µg/L
				Potassium	3,580 µg/L
				Magnesium	38,200 μg/L
				Sodium	99,200 µg/L
				Nitrite + Nitrate	2,900 μg/L
				Phosphase	19.2 µg/L
				Chloride	259,000 μg/L
				Sulfate	106,000 µg/L
Cto	SS-26-023	0.0	6/29/92	C	975in
Sample receding EB	33-45-043	0.0	G 43/74	Copper Iron	825 μg/g 7970 μg/g
seconng En				Lead	
				Zinc	1000 μg/g 528 μg/g
Faulancet	SS-26-023	0.0	6/29/92	Lead	325 μg/g 22.3 μg/L
Equipment Lineare Blank	33-20-V23	V.U	UI 4317 4	Berium	
under Dunk				Calcium	62.3 µg/L
					98,500 µg/L
				Copper	11.4 µg/L
				iron Potossisses	59.0 µg/L
				Potassium Magnesium	3,630 µg/L
				Magnesium	37,300 µg/L
				Sodium	97,300 µg/L
	•			Zinc	74.5 µg/L

Semple	Sample	Depth	Date	Analyte	Concents	stice
Туре	Identification	(R)	Sempled		·	
Sample	EP-01-082	5.0	6/30/92	Lend	9.64	Ma/E
receding EB				Iron	9850	
Equipment	EP-01-082	5.0	6/30/92	Lead	1.5	μ ε/ L
insate Blank				Barium		μg/L '
				Calcium	104,000	
				Iron		μ g/ L
				Potassium		μ ε/ L
				Magnesium	40,500	
		•		Sodium	107,000	
				Nitrite + Nitrate		µg/L
				Phosphate		µg/L
				Chloride	259,000	
				Sulfate	109,000	
						
Sample	EP-01-095	7.0	7/1/92	Lead		H8/94
eceding EB				iron	16600	M8/2
Equipment	EP-01-095	7.0	7/1/92	Lend		μg/L
inente Blank				Barium		μ g/ L
				Calcium	98,800	μ g/ L
				Iron	116	μ g/ L
				Potassium	3,690	µg/L
				Magnesium	38,500	µg/L
				Sodium	101,000	µg/L
				Nitries + Nitraes	2,940	µg/L
				Phosphate		µg/L
				Chloride	259,000	
	•			Sulfate	109,000	
Romala	88.34 040	0.0	7250	3	0.000	
Sample	SS-26-040	0.0	7/7/92	Iron		HE/E
eceding EB				Load		H8/8
	20.04.040	• •		Zinc		H8/2
squipment	SS-26-040	0.0	7/7/92	Lead		μ g/ L
Rineate Binek				Barium		Mart.
				Calcium	94,300	
				iron		HOL
				Potassium	2,530	pol
				Magnesium	35,700	
				Sodium	94,200	
				Zinc		He/L

Sample Type	Sample Identification	Depth (ft)	Date Sampled	Analyte	Concentration
Sample	SS-19-010	0.0	7/8/92	Lead	6.24 µg/g
Preceding EB				Copper	8.22 μg/g
•				iron -	5690 <u>us/g</u>
				Zinc	38.5 μg/g
Equipment	SS-19-010	0.0	7/8/92	Lead	3.4 μ g/L
Rinsate Blank				Selenium	3.5 µg/L
				Arsenic	2.77 μ g/ L
				Barium	61.0 μ g/ L
				Calcium	94.200 μg/L
				Copper	39.1 μg/L
				iron	163 µg/L
				Potassium	2,990 μg/L
				Magnesium	35.700 μg/L
				Sodium	94.200 μg/L
				Ziac	155 μg/L
				Nitrite + Nitrate	2,570 μg/L
				Phosphate	17.9 μ g/ L
•				Chloride	250,000 μg/L
				Sulfate	103,000 µg/L
				Chloroform	0.61 µg/L
Sample Preceding EB	SW-45-003	0.0	7/9/92	Lead	1.63 µg/g
Equipment	SW-45-003	0.0	7/9/92	Lead	3.3 μ g/ L
Rinsate Blank				Scienium	4.8 μ g/ L
				. Barium	59.7 μ g/L
				Calcium	92,500 µg/L
				Copper	8.58 µg/L
				Iron	55.1 μg/L
				Potassium.	2,750 µg/L
				Magnesium	35,400 µg/L
•				Sodium	93,500 µg/L
				Zinc	302 μg/L

Semple Type	Sample Identification	Dopth (ft)	Date Sampled	Analyte	Concentration
Sample	SS-20-016	0.0	7/10/92	Arsenic	7.57 µg/g
Preceding EB				* Copper	152 μg/g
				• Iron	9190 µg/g
			•	Lead	1260 µg/g
				Zinc	465 µg/g
Equipment	SS-20-016	0.0	7/10/92	Lead	2.1 μg/L
Rinsate Blank				Selenium	4.8 µg/L
				Arsenic	3.09 µg/L
				Barium	59.5 μg/L *
				Calcium	92,100 μg/L. *
				Copper	15 µg/L
				Iron	49.6 µg/L
				Potassium	2,650 μg/L *
				Magnesium	35,300 μg/L. *
				Sodium	93,400 μg/L. *
				Zinc	62.6 µg/L
Sample	B-1	293.0	7/11/92	Selenium	5.54 µg/g
Preceding EB				Zinc	524 μg/g
Equipment	B-1	0.0	7/11/92	Selenium	4.6 µg/L
Rinsase Blank				Barium	68.7 µg/L *
				Calcium	93,700 µg/L *
				Copper	10.5 µg/L
				Potassium.	2.810 µg/L *
			•	Magnesium	35,700 µg/L *
				Sodium	94,700 µg/L *
				Zinc	166 µg/L
				Nitrite + Nitrate	3,090 µg/L *
				Phosphate	16.6 µg/L *
				Chloride	241,000 µg/L *
				Sulface	95,300 µg/L *

Sample Type	Sample Identification	Depth (ft)	Date Sempled	Analyte	Concentration
Sample	SS-01-008	0.0	7/12/92	Lead	5.58 µg/g
Proceding EB				Zinc	31.4 µg/g
Equipment	SS-01-008	0.0	7/12/92	Lead .	3.4 μ g/ L
Rinsate Blank				Selenium	3.6 µg/L
				Barium	61.2 μ g/ L
				Calcium	93,200 μg/L
				Copper	28.3 µg/L
				Iron	134 µg/L
				Potassium	2,920 µg/L
				Magnesium	35,500 μg/L
				Sodium	93,400 μg/L
				Zinc	64.8 µg/L
				Nitrite + Nitrate	3,030 µg/L
				Phosphate	15.2 μg/L
				Chloride	245,000 μg/L
				Sulfate	98,100 μg/L
Sample	SD-14-001	0.0	7/13/92	Selenium	16.7 µg/g
receding EB				Lead	226 µg/g
J				Zinc	1070 µg/g
Equipment	SD-14-001	0.0	7/13/92	Lead	1.7 μg/L
intate Blank				Selenium	3.5 µg/L
				Barium	59.7 µg/L
				Calcium	93,500 µg/L
	•			Potassium	3,190 µg/L
				Magnesium	35,600 µg/L
				Sodium	93,000 µg/L
				Zinc	44.5 µg/L
				Nitrite + Nitrate	2,970 µg/L
				Phosphase	13.2 µg/L
				Chloride	245,000 μg/L
	•			Sulfate	98,800 µg/L

Sample Type	Sample Identification	Depth (ft)	Date Sampled	Analyte	Concentration
			•		
Sample	SS-37-012	0.0	7/13/92	Selenium	34.6 µg/g
Preceding EB			•	Arsenic	- 3.62 μg/g
•				Copper	14.9 µg/g
				Tron	7560 µg/g
				Lead	36.8 µg/g
				Zinc	509 µg/g
Equipment	SS-37-010	0.0	7/13/92	Lead	3.9 μ g/ L
Rinsate Blank				Selenium	3.9 μ g/ L
				Arsenic	2.99 μ g/ L
				Barium	61.0 μg/L *
		•		Calcium	94,600 μg/L *
				Copper	19.9 µg/L
				Iron	146 µg/L
				Potessium	3,140 µg/L *
				Magnesium	36,300 μg/L *
				Sodium	94,900 µg/L *
				Zinc	643 µg/L _
				Chloroform	0.68 μg/L
Sample	SS-28-008	0.0	7/14/92	Lead	124 µg/g
Preceding EB				Ziec	127 µg/g
Equipment	SS-28-008	0.0	7/14/92	Lead	3.1 µg/L
Rinsate Blank				Selenium	3.7 µg/L
				Barium	61.7 µg/L *
•				Calcium	95,100 µg/L *
				Potassium	3,170 µg/L *
				Magnesium	36,600 µg/L *
				Sodium	95,800 µg/L •
				Zinc	45.6 µg/L
Sample	SS-27-007	0.0	7/15/92	Selenium	35.9 μ g/g
Preceding EB	OD 21-761		** au# / b	Lead	162 µg/g
: icroming GD				Zinc	98.0 µg/g
Equipment	SS-27-007	0.0	7/15/92	Lead	1.6 µg/L
Rineste Blank	انمداحم	•••	11 45774	Selenium	3.7 µg/L
				Recium	58.1 µg/L 4
				Calcium	90,900 pa/L
				Potassium	2,990 µg/L
		•		Magnesium	34,700 Mg/L
				Sodium	
					91,100 µg/L
				Zhe	34.7 µg/L

Sample Type	Sample Identification	Depth (ft)	Date Sampled	Analyte	Concentration
Sample	SD-47-002	0.0	7/16/92	Iron	10500 μg/g
Preceding EB				Lead	201 μg/g
		•		Zinc	2100 μg/g
Equipment	SD-47-002	0.0	7/16/92	Lead	2.5 μg/L
Rinsate Blank				Selenium	3.4 μ g/ L
				Barium	61.3 μg/L
				Calcium	94,300 µg/L
				Iron	42.7 μg/L
				Potassium	2,910 μg/L
				Magnesium	36,000 µg/L
				Sodium	94,500 μg/L
				Zinc	36.4 μg/L
Sample Preceding EB	SS-34-006	0.0	7/21/92	No Analytes Detected	
Equipment	SS-34-006	0.0	7/21/92	Lead	6.0 μ g/ L
linsate Blank				Selenium	4.0 μ g/ L
				Barium	57.1 μ g/ L
			4	Calcium	96,900 µg/L
				Iron	83.6 µg/L
				Potassium	3,630 µg/L
				Magnesium	38,500 μg/L
				Sodium	100,000 µg/L
	•	•		Zinc	28.6 µg/L

Sample Type	Sample Identification	Depth (ft)	Date Sampled	Analyte	Concent	etica	ì
Sample	SB-01-001	30.0	7/23/92	Lead	5.44	µ8/8	
Preceding EB				Aluminum	5350		
				Copper		HE/S	
				iron	7760		
				Zinc	34.2	HE/5	
Equipment	SB-01-001	30.0	7/23/92	Lead		μ g/L	
Rinsate Blank				Selenium	4.3	µg/L	,
				Amenic	2.99	µg/L	, •
				Aluminum		µg/L	
				Barium		µg/L	
				Calcium	93,300	μg/L	
				Copper		µg/L	
				Iron		µg/L	
				Potassium.	3,350		
				Magnesium	36,400		
				Manganese		µg/L	
				Sodium	95,100		
				Zinc	310	Me/L	, \
				Nitrice + Nitrace	3,220	µg/L	, •
				Phosphate		µg/L	
				Chloride	282,000	µg/L	, •
				Sulface	113,000	μg/L	, •

Sample Preceding EB	SB-01-005					
-		10.0	7/25/92	Selenium	1.38	<u></u>
				Aluminum	4090	
				Chromism	7.95	
				Copper	6.00	
				Iron	6500	
				Manganese	202	
		•		Zinc	24.0	48/2
Equipment	SB-01-005	10.0	7/25/92	Lead	5.3 (µg/L
insate Blank				Selenium		μg/L
				Arsenic	2.88	
				Aluminum	535	
				Barium	57.9	
				Calcium	98.300 [
				Chromium	6.1	
				Copper	39.3 (
				iron	I,140	
				Potassium	3,710	
				Magnesium	38,200	
				Manganese	18.3	
				Sodium	101,000	
				Zinc	297	
				Nitrite + Nitrate	3,330	
				Phosphate	21.0	
				Chloride	253,000	ha\r ha\r

Proceeding EB SB-BK-005 3.0 7/26/92 Lend 4.9.3 1/26/92 Lend 4.9.3 1/26/92 Lend 4.9.3 1/26/92 Lend 4.9.3 1/26/92 Lend 4.9.3 1/26/92 Lend 4.9.3 1/26/92 Lend 4.9.3 1/26/92 Lend 4.9.3 1/26/92 Lend 4.9.3 1/26/92 Lend 4.9.3 1/26/92 Lend 4.9.3 1/26/92 Lend 4.9.3 1/26/92 Lend 4.9.3 1/26/92 Lend 1.9.3 1/26/92 Lend 1.9.3 1/26/92 Lend 1.9.3 1/26/92 Lend 1.9.3 1/26/92 Lend 1.9.3 1/26/92 Lend 1.9.3 1/26/92 Lend 1.9.3 1/26/92 Lend 1.9.3 1/26/92 Lend 1.9.3 1/26/92 Lend 1.9.3 1/26/92 Lend 1.9.3 1/26/92 Lend 1.9.3 1/26/92 Lend 1.9.3 1/26/92 Lend 1.9.3 1/26/92 Lend 1.9.3 1/26/92 Lend 1.9.3 1/26/93 1/26/	Sample Type	Sample Identification	Depth (ft)	Date Sampled	Analyte	Consentration
Preceding EB	Sample	SB-01-003	5.0	7/26/92	Scienium	88.5 µg/g
Copper 13.0 149% 1000 149% 1400 149% 1400 149% 1400 149% 140%	Preceding EB				Lead	
Equipment SB-01-003 5.0 7/26/92 Lend 6.7					Copper	13.0 µg/g
Equipment SB-01-003 5.0 7/26/92 Lend 6.7						10300 µg/g
Rinnate Blank Solution 3.3						49.3 µg/g
Bertum 60.7		SB-01-003	5.0	7/26/92		6.7 μ ε/L
Calcium 93.800 µg/L Copper 30.3 µg/L Iron 407 µg/L Potacium 3.240 µg/L Magnesium 33,700 µg/L Magnesium 33,700 µg/L Magnesium 33,700 µg/L Sodium 93,500 µg/L Zinc 168 µg/L Nitrite + Nitrate 3,070 µg/L Phosphate 17.6 µg/L Chloride 241,000 µg/L Chloride 241,000 µg/L Sufface 101,000 µg/L Sufface 101,000 µg/L Sufface 101,000 µg/L Chloride 34,000 µg/L Chloride 34,000 µg/L Sufface 101,000 µg/L Sufface 101,000 µg/L Sufface 101,000 µg/L Preceding EB Aluminum 4460 µg/L Iron 6770 µg/L Iron 6770 µg/L Iron 6770 µg/L Iron 6770 µg/L Iron 6770 µg/L Rimsten Blank Equipment SB-BK-005 3.0 7/27/92 Lend 6.7 µg/L Rimsten Blank Equipment 5B-BK-005 3.0 7/27/92 Lend 6.7 µg/L Rimsten Blank Figuipment 5B-BK-005 3.0 7/27/92 Lend 6.7 µg/L Rimsten Blank Figuipment 5B-BK-005 3.0 7/27/92 Lend 6.7 µg/L Rimsten Blank Figuipment 5B-BK-005 3.0 7/27/92 Lend 6.7 µg/L Rimsten Blank Figuipment 5B-BK-005 3.0 7/27/92 Lend 6.7 µg/L Rimsten Blank Figuipment 5B-BK-005 3.0 7/27/92 Lend 6.7 µg/L Rimsten Blank Figuipment 5B-BK-005 3.0 7/27/92 Lend 6.7 µg/L Rimsten Blank Figuipment 5B-BK-005 3.0 7/27/92 Lend 6.7 µg/L Rimsten Blank Figuipment 5B-BK-005 3.0 7/27/92 Lend 6.7 µg/L Rimsten Blank Figuipment 5B-BK-005 3.0 7/27/92 Lend 6.7 µg/L Rimsten Blank Figuipment 5B-BK-005 3.0 7/27/92 Lend 6.7 µg/L Rimsten Blank	Rinsate Blank					3.3 μ g/ L
Copper 30.3 14/1						60.7 μg/L *
Iron 407						
Potestiem 3,240 µg/L Magnesiem 35,700 µg/L Magnesiem 35,700 µg/L Mangenese 5.7 µg/L Sodiem 93,500 µg/L Zinc 168 µg/L Nitrite + Nitrate 3,070 µg/L Phosphate 17.6 µg/L Phosphate 17.6 µg/L Phosphate 101,000 µg/L Phosphate 101,000 µg/L Preceding EB Alterniana 4460 µg/L Quarter 4.83 µg/L Quarter 4.83 µg/L Quarter 4.83 µg/L Quarter 4.83 µg/L Quarter 4.83 µg/L Quarter 4.84 µg/L						
Magnesium 33,700 µg/L Manganese 5.7 µg/L Sodium 93,500 µg/L Zinc 168 µg/L Pitosphate 3,070 µg/L Pitosphate 17.6 µg/L Chioride 241,000 µg/L Sumple SB-BK-005 3.0 7/27/92 Lend 10.7 µg/L Preceding EB Aluminum 4460 µg/L Copper 4,23 µg/L Iron 6770 µg/L Zinc 26.9 µg/L Equipment SB-BK-005 3.0 7/27/92 Lend 6.7 µg/L Riment Blank 212 µg/L Culcium 97,000 µg/L Culcium 97,000 µg/L Culcium 97,000 µg/L Culcium 371 µg/L Manganesium 3,740 µg/L Manganesium 37,000 µg/L						
Management S.7						
Solium 93,500 µg/L Zinc 168 µg/L Nitrite + Nitrate 3,070 µg/L Phosphate 17.6 µg/L Phosphate 17.6 µg/L Chloride 241,000 µg/L Sulface 101,000 µg/L Sulface 101,000 µg/L Sulface 101,000 µg/L Sulface 101,000 µg/L Copper 4,43 µg/L Iron 6770 µg/L Iron 6770 µg/L Iron 6770 µg/L Rimente Blank 212 µg/L Burlum 60,9 µg/L Copper 28,3 µg/L Iron 371 µg/L Potanium 37,000 µg/L					•	
Zinc 168					—	
Niterine Niterine 3,070 1971 Phosphate 17.6 17.6 17.6 1971 Chloride 241,000 1971 Sudine 101,000 1971 Sudine 101,000 1971 Preceding EB Alemanum 4460 1971 1800 6770 1971 1800 6770 1971 1800 6770 1971 1800 6770 1971 1800					- 	
Prospinate 17.6 pg/L						
Chloride Sulfate 241,000 µg/L Sulfate Sulfate 101,000 µg/L Sample SB-BK-005 3.0 7/27/92 Lond 10.7 µg/g Preceding EB Alterniseum 4460 µg/g Copper 4.83 µg/g Iron 6770 µg/g Zinc 26.9 µg/g Equipment SB-BK-005 3.0 7/27/92 Lond 6.7 µg/L Rinsset Blank Barlum 2112 µg/L Burlum 60.9 µg/L Chickum 97,000 µg/L Chickum 371 µg/L Potentistm 3.740 µg/L Iron 371 µg/L Potentistm 37,000 µg/L Iron 371 µg/L Potentistm 37,000 µg/L Manganetee 4.9 µg/L Sulfate 995,500 µg/L Sulfate 995,500 µg/L						
Sample SB-BK-005 3.0 7/27/92 Lead 10.7 µg/n Preceding EB Aluminum 4460 µg/n Copper 4.83 µg/n livon 6770 µg/n livon 6770 µg/n Zinc 26.9 µg/n Equipment SB-BK-005 3.0 7/27/92 Lead 6.7 µg/n Rinesse Blank 212 µg/n Burium 60.9 µg/n Culcium 97,000 µg/n Cupper 28.3 µg/n livon 37.1 µg/n Potensium 3,740 µg/n Manganesse 4.9 µg/n Manganesse 4.9 µg/n Manganesse 4.9 µg/n Sadium 93.500 µg/n						
Preceding EB Aluminum Copper 4.83 µg/s lron 6770 µg/s Zinc 26.9 µg/s Equipment SB-BK-005 3.0 7/27/92 Lend 6.7 µg/s Rineste Blank Aluminum 212 µg/s Barium 60.9 µg/s Colcium 97,000 µg/s Copper 28.3 µg/s lron 371 µg/s Potentium 37,000 µg/s Maganesum 37,000 µg/s Maganesum 37,000 µg/s Maganesum 37,000 µg/s Maganesum 37,000 µg/s Maganesum 37,000 µg/s Maganesum 395,500 µg/s Zinc 995 µg/s						101,000 με/λ. *
Preceding EB Aluminum Copper 4.83 µg/s lron 6770 µg/s Zinc 26.9 µg/s Zinc 26.9 µg/s Rinesse Blank Aluminum 212 µg/s Rinesse Blank Aluminum 60.9 µg/s Colcium 97,000 µg/s Copper 28.3 µg/s lron 371 µg/s Potensium 37,000 µg/s Magnesium 37,000 µg/s	Semole	SB-BK-005	3.0	7 <i>127.1</i> 92	Lond	10.7 uele
Copper 4.83 µg/1 iron 6770 µg/1 iron 6770 µg/1 Zinc 26.9 µg/1 Zinc 26.9 µg/1 Equipment SB-BK-005 3.0 7/27/92 Lend 6.7 µg/1 Rinesse Blank Alemanum 212 µg/1 Burium 60.9 µg/1 Colcium 97,000 µg/1 Copper 28.3 µg/1 iron 371 µg/1 Potentium 3,740 µg/1 Magnesium 37,000 µg/1 Magnesium 37,000 µg/1 Manganese 4.9 µg/1 Sodium 95.500 µg/1 Zinc 996 µg/1						
Iron 6770 1491 221cc 26.9 1491 221cc 26.9 1491 221cc 26.9 1491 221cc 26.9 1491 221cc 26.9 1491 221cc 24.9 1491 24.9 1	3333333					
Zinc 26.9 με/ε Equipment SB-BK-005 3.0 7/27/92 Lend 6.7 με/ε Rimente Blank Aleminum 212 με/ε Burium 60.9 με/ε Calcium 97,000 με/ε Capper 28.3 με/ε Iron 371 με/ε Potentium 37,000 με/ε Magnesium 37,000 με/ε Magnesium 37,000 με/ε 4.9 με/ε Sedium 95,500 με/ε 25αc 996 με/ε 25αc	• .		•			
Equipment SB-BK-005 3.0 7/27/92 Lond 6.7 µg/L Rineste Blank Absolutes 212 µg/L Burlum 60.9 µg/L Chicium 97,000 µg/L Copper 28.3 µg/L Iron 371 µg/L Potentium 3,740 µg/L Manganese 4.9 µg/L Sodium 95,500 µg/L Zinc 996 µg/L						
Rinente Blank Aleminum Burium 60.9 µg/l Chicium 97,000 µg/l Copper 28.3 µg/l iron 371 µg/l Potentium 3,740 µg/l Magnetium 37,000 µg/l Mangnese 4.9 µg/l Sodium 95,500 µg/l Zinc 996 µg/l	Equipment	SB-BK-005	3.0	7/27/92		
Barium 60.9 μg/L Chicium 97,000 μg/L Copper 28.3 μg/L Iron 371 μg/L Potentium 3,740 μg/L Magnesium 37,000 μg/L Manganese 4.9 μg/L Sodium 95,500 μg/L Zinc 996 μg/L	Rinesee Blank				Alteriaum	212 µg/L
Calcium 97,000 pg/l Copper 28.3 pg/l Iron 371 pg/l Potentium 3,740 pg/l Magnesium 37,000 pg/l Manganees 4.9 pg/l Sodium 95,500 pg/l Zhc 996 pg/l					Barium	60.9 pg. *
Copper 28.3 μg/l iron 371 μg/l Potentium 3.740 μg/l Magnesium 37,000 μg/l Mengence 4.9 μg/l Sedium 95,500 μg/l Zhe: 996 μg/l					Calcium	97,000 pg/L *
Potentium 3,740 μg/l Magnesium 37,000 μg/l Mangnese 4.9 μg/l Sodium 95,500 μg/l Zha: 996 μg/l					Copper	28.3 pg/L
Magnesium 37,000 µg/s Manguese 4.9 µg/s Sodium 95,500 µg/s Zinc 996 µg/s					Iron	371 µg/L
Manganos 4.9 μg/l Sodium 95.500 μg/l Zha: 996 μg/l					=	3,740 pg/L *
Sodium 95,500 ppt Zha 996 ppt						37,000 µg/L *
Zinc 996 pg6						4.9 µg/L •
ullet						95,500 pgt. •
Nichte + Nichte 3,150 year						
						3,150 pg/L *
						247,000 pg/L 3

Sample Type	Scaple Identification	Dopth (ft)	Date Sampled	Analyte	Concentration	
Sample	SB-01-008	15.0	7/28/92	Selenium	.430 µg/g	
receding EB				Lead	4.86 µg/g	
				Copper	4.80 µg/g	
				iron	4400 µg/g	
				Vanadium	9.11 µg/g	
				Zinc	13.9 µg/g	
Equipment	SB-01-008	15.0	7/28/92	Selenium	3.4 µg/L	
insate Blank				Arsenic	2.88 μg/L	
				Barium	59.1 μ g/ L	
				Calcium	96,900 μ g/ L	
				Copper	24.0 μg/L	
				iron	237 μ g/ L	
				Potassium	4,140 µg/L	
				Magnesium	36,600 μg/L	
				Manganese	5.6 µg/L	
				Sodium	93,700 μg/L	
				Vanedium	14.4 µg/L	
				Zinc	532 μ g/ L	
				Nitrice + Nitrace	3,110 µg/L	
				Phosphate	16.3 μg/L	
•				Chloride	242,000 μg/L	,
				Sulface	103,000 μg/L	
Sample receding EB	SB-01-007	5.0	7/29/92	Lead	9.04 μg/g	
P	SD 01 000				¥ 8/8	
Equipment	SB-01-007	5.0	7/29/92	Load	1.7 μ g/L	
insate Blank				Bartum	49.6 µg/L	
				Calcium	74,700 µg/L	
				Potassium	4,410 µg/L	
				Magnesium	36,600 µg/L	
				Sodium	96,000 µg/L	
				Nitrite + Nitrate	2,730 µg/L	
				Chloride	248,000 µg/L	
				Sulface	109,000 μg/L	

Sample Type	Sample Identification	Depth (R)	Date Sampled	Analyte	Concentration
Sample	SB-01-006	5.0	7/30/92	iros	4910 µg/g
Proceding EB				Sodium	244 µg/g
				Vanadium	7.92 µg/g
Equipment	SB-01-006	5.0	7/30/92	Bachum	49.0 µg/L
Rinesee Blank				Calcium	74,800 µg/L 1
				iron	49.2 µg/L
				Potassium	4,540 µg/L 1
				Magnesium	36,500 µg/L
				Sodium	95,600 μg/L
				Vanadium	14.4 µg/L
				Nitrine + Nitrate	2,750 µg/L
				Chloride	237,000 μg/L
				Sulfate	109,000 µg/L
Sample	EP-01-096	3.5	8/4/92	Arsenic	6.71 μ g/g
Preceding EB				Copper	47.2 µg/g
_				Vanadium	6.71 µg/g
Equipment	EP-01-096	3.5	8/4/92	Selenium	3.4 µg/L
Rinsase Blank				Agrenic	3.2 µg/L
				Berlum	47.5 µg/L
				Calcium	64,000 µg/L
				Copper	14.3 µg/L
				Potassium	4,410 µg/L
	,			Magnesium	36,400 µg/L
				Sodium	96,000 µg/L
			٠	Vanadium	12.9 µg/L
				Nitries + Nitrate	2,630 µg/L
				Chloride	254,000 µg/L
				Sulfate	110,000 µg/L
				Bio(2-cthylhexyl)phthalate	6.6 µg/L

Sample Type	Sample Identification	Depth (ft)	Date Sampled	Analyte	Concentration
Sample	EP-01-099	7.0	8/5/92	Amenic	8.57 μ g/g
Preceding EB				Vanadium	7.37 µg/g
				Zinc	1740 µg/g
Equipment	EP-01-099	7.0	8/5/92	Arsenic	2.99 µg/L
Linsate Blank				Barium	47.9 µg/L
				Calcium	64,600 µg/L
				Potassium	4,400 µg/L
				Magnesium	36,500 µg/L
				Sodium	96,100 μg/L
				Vanadium	14.5 μg/L
				Zinc	28.2 μg/L
				Nitrite + Nitrate	2,580 µg/L
				Chloride	249,000 μg/L
				Sulfate	109,000 με/L
					-
Sample Proceding EB	EP-01-102	3.5	8/6/92	Vanadium	8.17 µg/g
Equipment	EP-01-102	3.5	8/6/92	Barium	46.5 µg/L
tinene Blank				Calcium	63.300 μg/L
				Potassium	4,840 µg/L
				Magnesium	36,100 µg/L
				Sodium	95,100 µg/L
				Vanadium	15.3 μ g/ L
				Nitrite + Nitrate	2,580 μ g/ L
				Chloride	244,000 μg/L
•		·		Sulfate	1 09,000 μg/L
Sample	EP-01-105	5.0	8/7 <i>/</i> 92	Arsenic	5.12 μ g/g
Preceding EB				Vanadium	9.66 µg/g
Equipment	EP-01-105	5.0	8/7/92	Arsenic	3.09 µg/L
tinente Blank				Barium	46.6 µg/l.
				Calcium	63,400 µg/L
				Potassium Magnesium	4,800 µg/L
				Magnesium	36,500 µg/L
				Sodium	96,100 µg/L
				Vanadium	15.2 µg/i
				Nigras + Nigras	2,550 µg/L
				Chloride	246,000 µg/L
				Sulfate	110,000 µg/1

Sample	Sample	Dopth	Date	Analyte	Concentration
Туро	Identification	(ft)	Sampled		
Sample	EP-01-111	3.5	8/8/92	Vanadium	14.1 µg/g
receding EB			•		
Equipment	EP-01-111	3.5	8/8/92	Selenium	4.7 µg/L
inesse Blank	,			Arsenic	2.77 µg/L
				Barium	48.2 μg/L
				Calcium	65,100 μg/L
				Potassium.	4,490 µg/L
				Magnesium	36,700 μg/L
				Sodium	96,400 μg/L
				Vanadium	11.7 μ g/ L
		•		Nitrice + Nitrace	2,700 μg/L
				Chloride	239,000 μg/L
				Sulface	109,000 μg/L
Sample ecoding EB	EP-01-112	3.5	8/9/92	No Analytes Descried	
:quipment	EP-01-112	3.5	8/9/92	Selenium	3.9 µg/L
neate Blank				Barism	47.8 µg/L
				Calcium	64,100 µg/L
				Potassium	4,540 µg/L
				Magnesium	36,400 µg/L
				Sodium	95,500 µg/L
				Nitrise + Nitrate	2,690 µg/L
			•	Chloride	240,000 μg/L
				Sulface	108,000 µg/L
Samole	EP-01-115	4.5	8/10/92	Amenic	12.0 µg/g
eceding EB				Manganese	2400 µg/g
iquipment	EP-01-115	4.5	8/10/92	Lead	1,4 µg/ 1
neate Blank				Arrenic	3.09 µg/l
				Beriem Chiefenn	57.2 µg/t
				Calcium	90,800 μα/Σ
				Potnesium Marmanian	4,510 µg/L
				Magnesiaen	38,600 µg/I
				Manganese	3.0 pgf
				Soften	96,600 pgf
				Vanadium	13.0 µgf
				Nicrite + Missale	2,790 page
	•			Chloride	239,000 µg/1

Sample Type	Sample Identification	•			
Sample Preceding EB	EP-01-121	9.0	8/11/92	Vanadium	7.19 µg/g
Equipment Rinsate Blank	EP-01-121	9.0	8/11/92	Barium Calcium Potassium	55.8 µg/L * 85.600 µg/L * 4,270 µg/L *
				Magnesium Sodium Vanadium	38,100 μg/L * 95,900 μg/L * 11.5 μg/L
		•		Nitrite + Nitrate Chloride Sulfate	2,710 µg/L 4 259,000 µg/L 4 116,000 µg/L 4

^{*} These concentrations are equivalent to those found naturally in the source water, and are not attributed to equipment contamination.

EB - Equipment Rinsate Blank

APPENDIX C-17 POSITIVE FILTER BLANK RESULTS

Field ID Lab ID Collection Date		FB-45-001 TNWTR1*24 7/9/92	FB-14-001 TNWTR1*18 7/12/92	FB-14-002 TNWTR1*19 7/13/92	FB-47-001 TNWTR+20 7/16/92
	Units				•
Parameter	Units .	···· <u>·</u> ·······························			
Inorganics		•			
Selenium	µg/L	3.6	4.0	5.0	3.5
Bacium	μ g/L	60.8 *	62.4 *	60.9 *	64.8 *
Calcium	μ g/ L	94200 *	92800 *	95500 *	96200 *
Copper	µg/L	<8.09	13.0	<8.09	<8.09
Potassium	μ g/ L	2540 *	2280 *	2790 *	2830 *
Magnesium	μ g/L	36400 *	35900 *	36500 *	36600 *
Sodium	μ g/L	95300 *	94500 *	95300 *	95100 +
Zinc	µ g∕L	46.6	109.0	<21.1	<21.1
Lead	μ g/ L	<1.3	3.8	2.8	<1.3

^{*} These concentrations are equivalent to those found in the source water and are therefore not attributed to the filtering process.

Topele-North Phase I RFI Stangerd Metrix Sample Results

	Lot	Test Hethed	Analysis Date	Test	Chamical Name	Result (%)	Deta Flags	Deta Qualifiers	Spiked Concen.	Recovered Concen.	Unit
•	AAD	SD22	06/06/92	\$	Arsenic	82.00	, · · · · · · · · · ·	···········			
•		3022 3022	08/08/92	2	Arsenic	82.00 104.00			5.000	4.100	UGL
				-	Arsenic				75.000	78.000	UGL
		\$022	08/08/92	\$	Ar Serie	105.60			75.000	79.200	UGI
8	AAH	1022	09/07/92	\$	Arsenic	112.00			5.000	5.400	UG
		\$022	09/07/92	\$	Arsenic	93.33			75.000	70.000	UG
		1022	09/07/92	\$	Arsenic	96.67			75.000	72.500	UG
	AAI	\$022	08/13/92	s	Arsenic	100.00			5.000	5.000	UG
		2022	08/13/92	\$	Arsenic	92.80			75.000	69.600	U
		SD22	08/13/92	\$	Arsenic	94.27			75.000	70.700	UC
3	ABD	LH10	08/15/92	s	alpha-Endosulfan / Endosulfan I	70.00			0.020	0.014	UG
		LH10	08/15/92	S	Aldrin	95.00			0.020	0.019	u
		LH10	08/15/92	\$	beta-Endosulfan / Endosulfan II	35.00			0.020	0.007	U
		LH10	08/15/92	5	Dieldrin	60.00			0.020	0.012	U
		LH10	08/15/92	8	Endrin	20.00			0.020	0.804	u
		LH10	08/15/92	8	Neptochlor	45.00			0.020	0.013	U
		LH10	08/15/92	\$	Isodrin	83.33			0.030	0.025	u
		LN10	08/15/92	8	Lindone / gamma-Benzenehexachtoride	80.00			0.020	0.016	U
		LH10	06/15/92	\$	Methoxychlor	23.50			0.200	0.047	U
		LN10	08/15/92	\$	p,p-00T	95.00			0.020	0.019	Ų
	ACC	JD19	08/07/92	\$	Arsenic	135.94			0.473	0.443	u
		JD19	08/07/92	\$	Arsenic	111.33			7.590	8.450	U
		JD 19	08/07/92	\$	Arsenic	104.71			7.640	8.000	U
}	ACG	J D19	09/17/92	\$	Arsenic	119.83			0.464	0.556	us
	_	JD19	09/17/92	\$	Arsenic	113.54			7.680	8.720	U
		JD19	09/17/92	s	Arsenic	113.14			7.760	8.780	u
	ACI	J019	09/17/92	s	Arsenic	117.89			0.492	0,580	ux
		JD19	09/17/92	\$	Arsenic	107.21			7.630	8,180	U
		JD 19	09/17/92	\$	Arsenic	106.53			7.960	8.480	U
.	ACH	.D19	09/28/92	\$	Arsenic	126.03			0.484	0.610	
,	. 1071	JD19	09/28/92	5	Arsenic	104.21			7.830	8.160	U
		JD19	09/28/92	8	Arsenic	99.37			7.980	7. 93 0	U
i	ACP	JD19	09/29/92	8	Arsenic	138.01			A 400		
)	-767	JD17 JD19	09/29/92	\$	Arsenic	138.01			0.492	0.679	U
		J019	09/29/92	\$	Arsenic	109.16			7.750 7. 86 0	8.440 8.580	U
		₩ 17	/ 67/ 7E	•		·W-45			r . 	5.7 5 0	u
	ABA	LHIS	08/07/92	\$	2,4,6-Tribromophenol	88.86			6.700	5.900	U
		LH18	06/07/92	\$	2-Fluorebiphenyl	93.94			3.300	3.100	U
		LN18	00/07/92		2-Fluorephanol	85.58			4.700	5.400	U
		LIMS LIMS	00/07/92 00/07/92	*	Hitrobensono-05 Phonol-06	90.91 85.50			3.300	3.000	u
		LIMB LIMB	62/67/92 62/67/92	8	Terphenyl-B14	90.91			6.700 3.300	5.400 3.000	U
	-			_	•						
	ABB	LITTE	00/06/92 00/06/92	\$ \$	2,4,6-Tribromphenol 2-Fluorebighenyi	104.46			6.700	7.000	U
		LIME		•	5-r tuer and priority?	8.8			3.300	2.800	U

Hotes for Data Flags: 1 = Results Less than CRL but greater than CCD, R = Analyte required for reporting purposes but not ourrantly contified, X = Analyte resource outside of contified range but within acceptable limits

107000)K C-18

Totals-Horth Phase 1 871 Standard Metrix Sample Results



.eb	Lot	Test Method	Analysis Date	ec Test	Chemical Hame	Result (%)	Data Flags	Deta Gualifiers	Spiked Concen.	Recevered Concen.	Unit
is .	AEB	LH18	08/06/92	<u> </u>	2-Flueraphenol	82.09			6.700	5.500	UGS
		LII18	08/06/92	8	Hitrobonzene-05	87.86			3.300	2.900	UGG
		LHIS	08/06/92	\$	Phenol-Dé	77.61			6.700	5.200	UGG
	•	LI118	08/06, 92	8	Terphanyl-014	93.94			3.300	3.100	UGE
ES	AEE	LM18	08/12/92	\$	2,4,6-Tribromophenol	80.40			6.700	5.400	UGG
		LIMS	06/12/92	\$	2-Fluorobiphonyl	87.86			3.300	2.900	UGG
		LN18	08/12/92	\$	Z-Fluorephenol	92.54			6.700	6.200	UGG
		LH18	08/12/92	\$	Nitrobenzene-05	90.91			3.300	3.000	UGG
		LH18	08/12/92	5	Phenol-Dó	91.04			6.790	6.100	UGG
		LM18	08/12/92	\$	Terphonyl-014	90.91			3.300	3.000	UGG
ES	AEG	LH18	08/20/92	\$	2,4,6-Tribramaphenal	92.54			6.700	6.200	UGG
		LH18	08/20/92	\$	2-Fluorobiphenyl	87.88			3.300	2.900	UGG
		LH18	08/20/92	8	2-Fluorophenol	83.58			6,700	5.600	ucc
		LN18	08/20/92	8	Nitrobenzune-05	81.82			3.300	2.700	UGG
		LINIS	08/20/92	8	Phonol-96	86.06			6.700	5.900	UGG
		U118	08/20/92	\$	Terphonyl-014	87.86			3.300	2.900	UGG
ES	AEK	LHIB	08/26/92	8	2,4,6-Tribramophenol	79.10			6.790	5.300	UGG
		LII18	08/59/65	\$	2-Fluorobiphonyl	96.97			3.300	3.200	UCE
		LH18	08/36/95	8	2-Fluorophenol	100.00			6.700	6.700	
		LINS.	08/26/92	\$	Hitrobonzene-05	96.97			3.300	3.200	
		LIMS	08/36/92	8	Phone 1-D6	92.54			6.700	6.200	
		UI18	08/36/92	8	Terphenyl -914	84.85			3.300	2.800	UGG
ES	AFA	UN32	08/17/92	\$	1,3,5-Trinitrobenzone	88.73			0.958	0.850	UGL
		UNSZ	08/17/92	\$	1,3,5-Trinitrobenzene	80.58			9.580	7.720	UGL
		UAS2	06/17/92	8	1,3,5-Trinitrobensone	86.12			9.580	8.250	UGL
		UNSZ	08/17/92	\$	1,3,5-Trinitrebengene	83.00			44.700	37.100	UGL
		UAG2 UAG2	08/17/92	\$ \$	2,4,6-Trinitrotoluene	95.04			1.210	1.150	UGI
		UMS2	08/17/92	5	2,4,6-Trinitrotolume 2,4,6-Trinitrotolume	89.26 89.26			12.100 12.100	10.800	UGL
		UMS2	08/17/92	\$	2,4,6-Trinitrotolume	82.38				10.800	ner
		UNSZ	08/17/92	•	2.4-9 ini tretoluene	95.93			80,60 0 0,123	66.400 .0.118	UEL
		ULG2	08/17/92	Š	2.4-Dinitrotolume	ES.74			1,230	1.030	UG
		UMG2	08/17/92	•	2.4-Dinitrocelume	85.37			1.230	1.050	UGL
		ULGZ	08/17/92	•	2,4-Dinitrotolume	92.87			16.400	15.100	UEL
		UAG2	08/17/92	\$	2-Hitrotolume (TIC)	101.34			0.674	0.663	UEI
		ud2	08/17/92	\$	2-Nitretoluene (TIC)	77.60			6,740	5.230	UE
		MQS	08/17/92	8	2-Hitrotolumne (TIC)	65.96			6.748	5.660	UB
		UAG2	08/17/92	\$	2-Hitrotelusne (TIC)	86.04			101.000	86.700	UE
		USZ	08/17/92	8	Hitroboncone	95.43			1.200	1.150	UB
		UNS?	08/17/92	8	Hi trobattane	78.60			12,000	7.360	UBI
		ULSZ	08/17/92	8	Ni trobensone	84.17			12.000	10,100	UE
		UAS2	08/17/92	\$	Hitrobangene	85.25			96.300	82.100	UE
		mes.	08/17/92	8	Cyclenite (NDX)	126.23			2.440	3.000	UE
		M45	06/17/92	8	Cyclenite (RBK)	97.13			24,400	23.700	U
		ud2	08/17/92	8	Cyclenite (RSK)	107.38			24.400	26.200	VE
		use	96/17/92	\$.	Cyclonite (MMI)	91.46			91,460	65.800	
18	AFB	MES	00/10/92		1,3,5-Trinitrobaneano	78.00			0.998	0.746	
		UNITE	06/16/72	8	1,3,5-Trinitrobensone	77.77			7.500	7.480	

Notes for Bota Flags: 1 = Results Less than CRL but greater than CCD, R = Analyte required for reporting purposes but no: surresitly cortified, X = Analyte resevery dutaids of cortified range but within acceptable limits

Topele-North Phase I RFI Standard Matrix Sample Results

s b	Lot	Test Method	Anelysis Date	QC Test	Chamical Name	Result (%)	Deta Flage	Deta Qualifiers	Spiked Concen.	Recovered Concen.	Unit
_	AFB	UL/32	08/18/92	\$	1.3.5-Trinitrobenzene	95.42			9.580	9.160	UGL
-		UL/S2	08/18/92	\$	1,3,5-Trinitrobenzene	87.02			44.700	38.900	UGL
	-	UNISS	08/18/92	\$	2,4,6-Trinitrotoluene	93.39			1.210	1.130	UGI
	_	ULS2	08/18/92	S	2.4.6-Trinitrotoluene	86.78			12.100	10.500	UG
		ULG2	08/18/92	S	2,4,6-Trinitrotoluene	98.35			12.100	11,900	UG
		UNSS	06/18/92	S	2,4,6-Trinitrotoluene	84.62			80.600	68.200	UG
		UM32	08/18/92	\$	2,4-Dinitrotoluene	90.24			0.123	0.111	UG
		UMSZ	08/18/92	S	2,4-Dinitrotoluene	86.99			1.230	1.070	UG
		UA32	06/18/92	S	2,4-Dinitrotoluene	93.50			1.230	1.150	UG
		UM32	08/18/92	\$	2,4-Dinitrotoluane	90.85			16.400	14.900	UG
		UM32	08/18/92	S	2-Mitrotoluene (TIC)	34.27			0.674	0.231	UG
		UM32	06/18/92	S	2-Mitrotoluene (TIC)	40.36			6.740	2.720	UG
		UM32	08/18/92	\$	2-Mitrotoluene (TIC)	87.39			6.740	5.890	UG
		UM32	08/18/92	S	2-Mitrotoluene (TIC)	33.37			101.000	33.700	UG
		UL/32	08/18/92	S	Nitrobenzene	34.92			1.200	0.419	UG
		UM32	08/18/92	\$	N i trobenzene	40.00			12.000	4.800	UG
		UL32	08/18/92	\$	Hitrobenzene	81.00			12.000	9.720	UG
		UM25	08/18/92	S	Hitrobenzene	36.14			96.300	34.800	UG
		UN32	08/18/92	\$	Cyclonite (RDX)	85.66			2.440	2.090	UG
		UN32	08/18/92	\$	Cyclonite (RDX)	88.11			24.400	21.500	UG
		UN32	08/18/92	\$	Cyclonite (RDX)	111.48			24.400	27.200	UG
		UN32	08/18/92	S	Cyclenite (RDX)	94.75			91.400	86.600	UG
)		UNIS2	08/08/92	\$	1,3,5-Trinitrobenzene	86.22			0.958	0.826	UG
		UN25	08/08/92	\$	1,3,5-Trinitrobenzone	87.48			9.580	8.400	U
		UL/32	08/08/92	\$	1,3,5-Trinitrobenzene	92.69			9.500	8.880	U
		UN25	08/08/92	\$	1,3,5-Trinitrobenzene	93.29			44.700	41.700	U
		UN25	08/08/92	\$	2,4,6-Trinitrotoluene	100.00			1.210	1.210	U
		UM32	08/08/92	\$	2,4,6-Trinitrotaluene	91.74			12.100	11.100	u
		UM32	08/08/92	\$	2,4,6-Trinitrotoluene	96.69			12.100	11.700	Ų
		UA/32	08/08/92	\$	2,4,6-Trinitrotoluene	86.72			80.600	69.900	U
		UN32	08/08/92	\$	2,4-Dinitrotoluene	95.12			0.123	0.117	u
		UN32	08/08/92	S	2,4-Dinitrotoluene	95.12			1.230	1.170	U
		UN32	08/08/92	\$	2,4-Dinitroteluene	99.19			1.230	1.220	u
		UMS2	08/08/92	\$	2,4-Dinitrotoluene	100.61			16.400	16.500	u
	•	UA/S2	08/08/92	\$	2-Mitrotoluene (TIC)	68.55			0.674	0.462	U
		UNSS	08/08/92	\$	2-Mitrotolumne (TIC)	86.35			6.740	5.820	u
		UNG2 UNG2	08/08/92	\$ \$	2-Mitrotolume (TIC)	91.99			6.740	6.200	u
		UMS2	08/08/92	2	2-Nitrotolume (TIC)	86.83			101.000	87.700	U
			08/08/92	_	Nitrobenzene	8.6			1.200	1.030	u
		UNZS	08/08/92 08/08/92	\$ \$	Ni trobenzene Ni trobenzene	86.33			12.000	10.600	U
		UM32	08/08/92	5		93.33 89.10			12.000	11.200	U
		UMSZ	08/08/92	\$	Nitrobenzene Cyclenite (RDX)				96.300	85.800	Ų
		UNSZ	08/08/92	\$	Cyclenite (RDX)	105.33 100.00			2.440	2.570	U
		UA/32	08/08/92	\$	Cyclenite (RDX)	106.97			24.400 24.480	24.400	U
		UAS2	08/08/92	•	Cyclenite (RBX)	101.09			91.400	36.100 92.400	U
}	AFD	UNIS2	08/10/92	8	1,3,5-Trinitrobenzene	83.40			0.958	0.799	บ
	-	UN25	00/10/92	8	1,3,5-Trinitrobenzone	90.71			9.500	8.490	u
		WGS	06/10/92	8	1,3,5-Trinitrobonzone	96.66			7.300	7.260	
		MGS	06/10/92	8	1,3,5-Trinitrebengene	91.65			44,700	40.700	
		WZ	08/10/92	8	2,4,6-Trimitrotolueno	92.56			1.210	1.129	

Notes for Data Flags: 1 = Results less than CRL but greater than CCD. R = Aralyte required for reporting purposes but not currently cortified, X = Analyte recovery outside of cortified range but within acceptable limits

ACCOUNTS C-10

Topolo-Borth Physic 1 RF1 Standard Metrix Sample Results



Leb	Lot	Test Method	Analysis Dete	ac Test	Chemical Name	Recult (X)	Deta Flags	Data Qualifiers	Spiked Concen.	Recovered Concen-	Unite
ES	AFD	UNS2	08/10/92	8	2,4,6-Trinitretaluene	90.91			12.100	11.000	UEL
		UNSZ	08/10/92	\$	2,4,6-Trinitrotoluene	91.74			12.100	11,100	UEL
		UNS2	08/10/92	\$	2,4,6-Trinitrotoluene	83.37			80.600	67.200	UGL
		UAS2	08/10/92	8	2,4-Dinitrotoluane	101.36			0.295	0.299	UEL
		ULSZ	08/10/92	8	2,4-Dinitrotolusne	103.73			0.295	0.306	UGL
		MRS	08/10/92	\$	2,4-Dinitretolume	92.28			2.440	2.270	UGL
		UNSZ	08/10/92	\$	2,4-Dinitrotolume	98.17			16.400	16.100	UEL
		nn25	08/10/92	\$	2-Hitrotoluane (TIC)	106.68			0.674	0.719	UCL
		UNS2	06/10/92	\$	2-Nitrotolugne (TIC)	85.01			6.740	5.730	UGL
		UN32	06/10/92	\$	2-Mitrotolumne (TIC)	103.56			6.740	6.980	NCT
		ULSZ	08/10/92	\$	2-Nitrotoluene (TIC)	86.93			101.000	87.800	UCL
		ULS2	08/10/92	\$	Ni trobenzone	81.17			1.200	0.974	UGL
		UA(32	08/10/92	\$	Hi trabenzene	83.25			12.000	9.990	UGL
		UKS2	06/10/92	S	Nitrobenzone	84.17			12.000	10.100	UGL
		UNSS	06/10/92	\$	Nitrobenzene	86.19			96.300	83.000	UCL
		UN/32	06/10/92	S	Cyclenite (RDX)	102.46			2.440	2.500	UCL
		UNGS	08/10/92	\$	Cyclenite (ROX)	91.39			24.480	22.330	UCL
		UAG2 UAG2	08/10/92 08/10/92	S	Cyclenite (RDX)	98.77 97.59			24.400	24.100	UGL
		OMSE	UB/ 1U/92	•	Cyclenite (MDX)	¥1.37			91.400	89.200	UNL
ES	AFE	UM52	08/26/92	\$	1,3,5-Trinitrobensone	77.24			0.958	0.740	1100
		UNS2	08/36/92	8	1,3,5-Trinitrebengene	91.75			9.580	8.790	
		UM32	08/26/92	\$	1,3,5-Trinitrebengene	91.75			9.500	8.790	
		UA52	08/26/92	\$	1,3,5-Trinitrebengene	87.70			44.700	39.200	
		UNS2	08/59/45	\$	2,4,6-Trinitrotolume	90.00			1.210	1.090	UBL
		UNSZ	08/26/92	\$	2,4,6-Trinitreteluene	90.91			12.100	11.000	UGL
		ULGZ	08/26/92	\$	2,4,6-Trinitrotoluene	90.91			12.100	11.000	UGL
		UN\$2	08/26/92	\$	2,4,6-Trini trotoluene	80.65			80.600	65.000	UGL
		UNS2 UNS2	06/26/92	\$ \$	2,4-Dinitrotolume	87.80			0.123	0.108	UGL
		ULS2	08/26/92	\$	2,4-Dinitratolusna 2,4-Dinitratolusna	87.80 86.62			1.230 1.230	1.000 1.090	UGL
		UAS2	08/26/92	\$	2,4-Dinitrotolume	90.85			16.400	14.980	UCL
		UAG2	08/24/92	\$	2-Hitrotolume (71C)	85.74			0.674	0.578	UGL
		UAG2	08/26/92	•	2-Hitrotolume (TIC)	92.14			6.740	6.210	UEL
		UASZ	08/26/92	•	2-Hitrotolugne (TIC)	95.70			6.740	6.450	UCL
		UAGZ	08/26/92	•	2-Hitrotolugne (7IC)	82.06			101.000	82.900	UEL
		UAS2	06/26/92	\$	Hitrabenzene	89.17			1.290	1.070	UEL
		UACE	06/26/92	•	Hitrobensone	25.23			12.000	10.000	UGL
		ULG2	08/24/92	8	Hitrabenzene	23.23			12.000	10.000	UBL
		UA/52	08/26/92	8	Mitrebenzene	83.39			96.300	80,300	UCL
		UMS2	00/36/92	8	Cyclenite (RBX)	86.52			2.440	2.160	UGL
		UMSZ	08/36/92	8	Cyclenite (RSK)	97.13			24.400	23.700	
		UNS2	08/26/92	8	Cyclenite (RDX)	97.95			24.400	23.900	
		M25	08/36/92	8	Cyclenite (RBX)	96.06			91.400	87.800	UCL
ES	AFH	UAS2	09/81/92	8	1,3,5-Trinitrebengene	71.40			0.958	0.484	UGL
		MRS	07/01/72	•	1,3,5-Trinitrebeneane	84.76			9.500	8.120	
		ULS2	87/01/92	8	1,3,5-Trinitrobeneane	86.95			7.300	8.230	
		MB5	99/81/92	•	1,3,5-Trinitrebengene	87.25			4.760	39.000	
		WES	99/81/92	8	2,4,6-Trinitrotolume	97.26			1.210	1.000	
		WES	07/01/92	8	2,4,6-Trinitrotoluene	97.26			12.100	10.000	
		MES	09/01/92	8	2,4,4-Trinitroteluene	90.08			12.100	10.900	
		mes.	97/01/72	8	2.4.6-Trinitrotolumno	65.67			80.480	67.400	

Notes for Both Flags: 1 = Results less than CRL but greater than CSD, R = Analyte required for reporting purposes but not ourrantly cortified, X = Analyte recovery outside of certified range but within acceptable limits

Topele-North Phase ! RFI Standard Matrix Sample Regults

Lab	Let	Test Hethed	Anelysis Date	QC Test	Chamical Name	Result (%)	Data Fl ags	Data Gualifiers	Spiked Concen.	Recovered Concen.	Unit
ES	AFH	UM32	09/01/92	\$	2.4-Dinitrotoluene	81.30			0.123	0.100	UGL
-		ULSZ	09/01/92	\$	2.4-Dinitrotelume	80.16			1.230	0.986	UGL
		ULS2	09/01/92	\$	2.4-Dinitrotolume	80.0E			1.230	1.020	UGL
		UN32	09/01/92	\$	2.4-Dinitrotolume	49.63		-	16.400	14.700	UGL
		UMS2	09/01/92	\$	2-Mitrotolumne (TIC)	100.59		•	0.674	0.678	UGL
		UASZ	09/01/92	\$	2-Mitrotolume (TIC)	86.94			6.740	5.860	UGL
		UNSZ	09/01/92	S	2-Mitrotolume (TIC)	88.13			6.740	5.940	UGL
		UNS2	09/01/92	S	2-Nitrotoluene (TIC)	88.51			101.000	89.400	UGL
		UM32	09/01/92	s	Nitrobenzene	81.17			1.200	0.974	UGL
		UMSZ	09/01/92	Š	Nitrobenzene	82.75			12.000	9.930	UGL
		UL/32	09/01/92	\$	Nitrobenzene	84.17			12.000	10.100	UGL
		UMSZ	09/01/92	S	Nitrobenzene	89.20			96.300	85.900	UGL
		UNSZ	09/01/92	S	Cyclonite (RDX)	80.74			2.440	1.970	UGL
		UM32	09/01/92	5	Cyclonite (RDX)	86.89			24.400	21.200	UGL
		ULS2	09/01/92	S	Cyclonite (RDX)	90.16			24.400	22.000	UGL
		UM32	09/01/92	5	Cyclonite (RDX)	94.86			91.400	86.700	UGL
		OHJE	07/01/72	•	Cyclonice (MDA)	7.00			71.400	00.700	UGL
\$	AHA	KT05	07/24/92	S	Chloride	100.80			12.500	12.600	UCE
		KT05	07/24/92	8	Chloride	101.44			90.000	91.300	UGG
		KT05	07/24/92	\$	Chloride	101.44			90.000	91.300	ues
		KT05	07/24/92	\$	Sulfate	98.40			125,000	123.000	UGG
		KT05	07/24/92	8	Sulfate	101.00			400.000	404.000	UGG
		KT05	07/24/92	\$	Sulfate	101.25			400.000	405.000	UGG
:\$		KT05	07/30/92	s	Chloride	105.60			12.500	13.200	UGG
		KT05	07/30/92	\$	Chloride	105.56			90.000	95.000	UGG
		KT05	07/30/92	Š	Chloride	105.67			90.000	95.100	
		KT05	07/30/92	\$	Fluoride	104.32					UGG
		KT05	07/30/92	Š	Fluoride	100.80			6.250	6.520	UGG
		KT05	07/30/92	•	Fluoride	101.20			50.000	50.400	UGG
		KT05	07/30/92	\$	Sulfate	97.60			50.000	50.600	UGG
		KT05	07/30/92	\$	Sulfate	101.00			125.000	122.000	UGG
		KT05	07/30/92	•	Sul fate	101.75			400.000 400.000	404.000 407.000	UGG
				_							
\$	ANC	KT05	08/05/92	\$	Chloride .	100.80			12.500	12.600	UCC
		KT05	08/05/92	\$	Chloride	105.89			90.000	95.300	UGG
		KT05	08/05/92	8	Chloride	106.22			90.860	95.600	UCG
		KT05	08/05/92	\$	Sulfate	97.60			125.800	122.000	UGG
		KT05	08/05/92	\$	Bulfate	103.25			400.000	413.000	UCG
		KT05	08/05/92	8	Sulfate	103.50			400.000	414.000	UCC
\$	AMD	KT05	08/10/92	\$	Chloride	96.80			12.500	12.100	UGE
		KT05	06/10/92	\$	Chloride	104.33			90.000	93.900	UEC
		KT05	08/10/92	8	Chloride	104.78			90.000	94.300	UDE
		KT05	06/10/92	\$	Sulfate	76.40			125.000	123.000	UGE
		KT05	06/10/92	\$	Sulfate	101.50			400.000	406.000	UG
		KT05	06/10/92	8	Sulfate	102.00			400.000	408.800	UDE
\$	AME	99	08/18/92		Chloride	96.00			12.500	12.000	UG
•		99	08/18/92	•	Chlorida	104.44			90.000	94.880	UBI
		99	08/18/92	•	Chloride	105.56			90.000		
		99	08/18/92	•	Sulfete	121.40			12.500		UD
				•		163.25				15.200	UDI
		99	06/18/92	•	Sulfate	143.45			400.000	413.000	U

Note: for Data Flage: 1 = Results less than CRL but greater than CCO, R = Analyte required for reporting purposes but not currently contified, X = Analyte recovery outside of certified range but within acceptable limits

Teache-Mirth Phase | 8F1 Standard Matrix Susple Results

		Test	Analysis	· OC		Reduct	Deta	Onta	Suffred	Bicavarad	
Lab	Lot	Nothed	Dete	Test	Chambeel Name	(%)	Flags	Qualifiers	Consen.	Concer.	Uni ta
E 8	AME	99	00/18/92	8	Sulfate	104.50			400.000	418,000	200
ES	AMF	99	08/34/92	\$	Chloride	95.20		. *	12.500	. 11.900	UBS
		99	08/24/92	\$	Chteride -	104.22	*		70.000	95.800	ues
		99	08/24/92	\$	Chloride . •	104.78			90.000	• 94.300	1006
		99	08/34/92	8	Sulfate	118.40			12.500	14.800	UGG
		99	08/34/92	\$	Sulfate	103.25			400.000	413.000	ues
		99	08/34/92	8	Sulfate	104.00			480.000	416.000	UGG
	AHG	99	08/27/92	\$	Chloride	91.20			12.500	11.400	uge
		99	08/27/92	8	Chloride	105.44			90.000	95.100	UGG
		99	06/27/92	\$	Chloride	165.44			90.000	95.100	UGS
		99	06/27/92	8	Sulfate -	76.96			12.500	9.620	UGG
		99 99	08/27/92 08/27/92	\$ \$	Sulfate Sulfate	101.50 101.50			400,000 400,000	406.900 406.900	UGS
				_	44.4 m. 1.4m						
ES	AMN	KT05	09/02/92	\$	Chloride	96.80			12.500	12.100	UGG
		KT05 KT05	09/02/92	8	Chloride	102.78 103.44			90.000	92.500	USS
		KT95	09/02/92	\$ \$	Chloride Sulfate	97.40			90.800 125.000	93.100 122.000	UGG
		KT05	09/02/92	\$	Sulfate	101.50			460.800	406.000	UGG
		KT05	09/02/92	\$	Suifete	162.25			400.000	409.000	
ES	ANI	KT05	09/04/92	\$	Chloride	96.00			12.500		
-	MIN I	KT05	09/04/92	5	Chloride	102.11			90.800	12.000 91.900	UCS
		KT05	09/04/92	\$	Chloride	102.47			90.000	92.400	UGG
		KT95	09/04/92	•	Sulfate	96.80			125.000	121.000	UGG
		KT05	09/04/92	\$	Sulfate	102.25			400.000	409.000	UBG
		KT95	09/04/92	\$	Sulfate	102.25			400.000	409.000	uee
ES	AJA	LH19	07/31/92	\$	1,2-Dichloroothane-D4	94.00			0.850	0.047	UGS
	*****	LH19	07/31/92	\$	4-Branof Luorobenzone	102.00			0.050	0.051	UCE
		LH19	07/31/92	8	Toluene-08	102.00			0.050	0.051	UGG
ES	AJB	LHIP	08/05/92	s	1,2-Dichloreethane-D4	96.00			0.850	0.048	uec
		LH19	00/05/92	8	4-Gramefiluorobenzone	102.00			0.050	0.951	ues
		LITT	08/05/92	8	Toluene-98	102.60			0.050	0.051	UBS
ES	AJC	LH19	00/09/92		1,2-Dichleroothene-04	96.00			0.850	0.048	ues
		LH19	08/09/92	\$	4-Branefiuorabenzone	102.00			0.650	0.051	ues
		LH19	08/09/92	8	Teluene-98	190.60			0.050	0.650	ues
ES	AJD	LH19	08/16/92	8	1,2-Dichlereethene-04	is. 00			0.250	0.044	UGG
		LIII	06/16/92	8	4-Braneflyprobenpene	12.00			0.650	0.046	
		LIII9	00/16/92	8	Tolsene-06	%.80			0.090	0.048	
ES	AJF	LITTO	00/18/92		1,2-Dickleresthene-04	96.00			9.050	0.048	ues
		LITTS	06/16/92	8	4-Branefluorabandene	78.00			0.050	0.049	USS
		LITTO	08/18/12		Teluane-86	70.00			0.650	0.049	1100
86	AJG	LH19	00/17/92		1,2-Dichtereethane-04	96.00			0.090	9.048	
		LHIP	00/17/92	8	4-Granofiuorebungane	72.00			0.650	0.046	_
		LITT	00/17/92	8	Tolume-86	100.00			9.000	0.050	

notes for Sets Flage: 1 = Assults less than CRL but greater than 600, R = Analyte required for reporting purposes but no: currently cortified, X = Analyte resourcy outside of cortified range but within acceptable limits

Tocele-North Phase I RFI Standard Matrix Sample Results

b	Lot	Test Hethod	Anslysis Date	ac Test	Chemical Name	Result (%)	Deta Flags	Data Qualifiers	Spiked Cencen.	Recovered Cencen.	Uni
;	AJI	LN19	08/20/92	\$	1,2-Dichloroethene-04	94.00			0.050	0.047	UE
		LH19	08/20/92	\$	4-Bramof Luorobenzene	94.00			0.050	0.047	UE
		LH19	08/20/92	\$	Tolusne-DS	94.00			0.050	0.047	U
;	LLA	LH19	08/21/92	\$	1,2-Dichloroethane-94	96.00			0.050	0.048	U
		LN19	06/21/92	\$	4-Bramofluorobenzene	98.00			0.050	0.049	U
		LM19	08/21/92	S	Tolusne-DS	98.00			0.050	0.049	Ų
	AKA	TT10	08/04/92	s	Chloride	100.50		1	9000.000	8040.000	U
		TT10	08/04/92	S	Chloride	100.00			5000.000	25000.000	Ų
		TT10	08/04/92	\$	Chloride	100.00		25	5000.000	25000.000	U
		TT10	08/04/92	S	Sulfate	88.50		20	000.000	17700.000	U
		TT10	08/04/92	\$	Sulfate	99.60		250	000.000	249000.000	U
		TT10	08/04/92	\$	Sulfate	100.40		250	0000.000	251000.000	U
	AKB	99	06/13/92	s	Bromide	101.00		20	000.000	20200.000	U
		99	08/13/92	\$	Branide	101.00		20	000.000	20200.000	U
	AKC	TT10	08/17/92	\$	Chloride	94.00			1000.000	3760.000	U
٠.		TT10	08/17/92	\$	Chloride	99.60			5000.000	24900.000	ŧ
	•	TT10.	08/17/92	\$	Chloride	100.00			5000.000	25000.000	Ļ
		TT10	08/17/92	8	Sulfate	87.50		20	2000.000	17500.000	ŧ
		TT10	08/17/92	\$	Sulfate	99.60		250	0000.000	249000.000	L
		TT10	06/17/92	\$	Sulfate	99.60		250	0000.000	249000.000	ŧ
	AKD	TT10	08/25/92	\$	Chloride	91.00		•	.000.000	3640.000	U
		TT10	08/25/92	\$	Chloride	100.00			3000.000	25000.000	U
		TT10	08/25/92	S	Chloride	100.80		2	5000.000	25200.000	t
		TT10	08/25/92	\$	Sulfate	86.00		20	000.000	17600.000	ŧ
		TT10	08/25/92	\$	Sulfate	101.20			0000.000	253000.000	ŧ
		TT10	08/25/92	\$	Sulfate	102.00		25	0000.000	255000.000	ľ
	AKE	TT10	06/23/92	\$	Chloride	93.50			.000.000	3740.000	ı
		TT10	08/23/92	8	Chloride	100.40		Z	5000.000	25100.900	(
		TT10	08/23/92	\$	Chloride	101.20		Z	5000.000	25300.000	ı
		TT10	08/23/92	\$	Sulfate	88.00		2	0000.000	17600.000	ŧ
		TT10	08/23/92	\$	Sulfate	101.40			0000.000	254000.000	ı
		TT10	06/23/92	\$	Sulfate	101.60		25	000.000	254000.000	•
	AKF	TT10	09/03/92	\$	Chloride	90.75			4000.000	3430.000	•
		TT10	09/03/92	\$	Chloride	100.00		_	5000.000	25000.000	
		TT10	09/03/92	\$	Chloride	100.40		_	5000.000	25100.000	ı
		TT10	09/03/92	8	Sulfate	84.00		_	0000.000	14800.000	ı
		TT10	09/03/92	\$	Sulfate	102.00		25	0000.000	255000.000	ı
		TT10	09/03/92	8	Sulfete	192.00		25	0000.000	255000.000	ı
	ALH	90	08/07/92	8	Total petroleum hydrocarbons	44.39			4200.000	2050.000	
		00	00/07/92	8	Total petroloum hydrocerbens	44.95			4200.000	2750,000	•
_	•	90	00/07/12	8	Total petroloum hydrocorbons	73.43		•	4200.000	3140,000	•
	ALV	00	08/11/92	8	Total petroleum hydrocerbans	101.79			1120.000	1140,000	(

Hotes for Data Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not ourrently cortified, X = Analyte recovery outside of certified range but within acceptable limits

Timele-Mapsh Phope I AFT Coundard Notrik Sample Massles

	Lot	Test Method	Analysis Date	Test	Chamical Name	Result (%)	Plags	Data Opolifiers	Splited Concen.	Recovered Censen.	Unite
ES	ALU	90	06/17/92	\$	Total petroleum hydrocarbans	100.00	•		1120,600	1120.000	UBG
ES	ANC	JD 15	09/28/92	\$	Setenium	96.67			0.484	0.465	UGG
		JD 15	09/26/92	\$	Selenium	101.92			7.830	7.900	U06
		JD15	09/25/92	\$	Solenium	101.00		•	7.900	8.066	UBG
ES	AMF	JD15	09/29/92	\$	Selenium	104.87			0.492	0.512	USS
		JD 15	09/29/92	3	Selenium	97.10			7.750	7.600	UGE
		J 015	09/29/92	\$	Setenium	99.11			7.880	7.810	UGG
3	AMS	J801	06/25/92	\$	Recury	109.00			0.100	0.109	200
		J801	04/25/92	\$	Mercury	100.79			0.755	0.761	280
		J001	08/25/92	\$	Hercury	98.61			0.789	0.778	uee
\$	AMF	J801	08/29/92	8	Heroury	94,00			0.100	0.0%	U06
		J801	06/59/92	\$	Hereury	87.66			0.7%	0.496	UBS
		1001	00/29/92	8	Recoury	89.97			0.798	0.718	UBS
\$	AQA	J816	08/25/92	\$	Silver	92.78			0.776	0.720	UBS
		J816	08/25/92	8	Silver	95.91			7.830	7.510	
		J816	04/25/92	\$	Silver	91.76			7.800	7.240	
		J\$16	04/25/72	8	Boryllium	102.27			4.850	4.768	
		JE16	08/25/92	8	Boryllium	100.82			49.000	49.400	
		J816	04/25/92	8	Beryttium	76.76			49.300	47.800	UBS
		J\$16	04/25/92	8	Cadeium	97.53			4.850	4.730	UGG
		J816	08/25/92	\$	Cadnium	95.51			49.000	44.800	UBG
		J876	04/25/92	8	Codefus	92.29			49.300	45.500	UNG
		J816	04/25/92	\$	Chronius	106.19			9.700	10.300	USS
		J816	08/25/92	8	Chronium	%.69			97.900	92.700	USS
		J816	04/25/92	\$ \$	Chronium	92.09			76.400	70.800	UGE
		J876 J876	04/25/92	\$	Copper Copper	97.94 97.76			4.850	4.750	UBS
		J816	04/25/72	•	Copper	91.73			49.300 49.300	47. 700 46. 700	UNE UNE
		J814	14/5/R	\$	Hickel	100.21			4.890	4.860	
		J816	01/25/92	•	tickel	94.49			47.000	46.400	un.
		J816	00/25/N2	•	Hickel	92.49			49.300	45.400	
		JE16	04/25/92	•	Theilium	102.37			9.700	7.500	
		J816	00/25/92	8	Theitium	97.04			97.900	95.000	HEE
		J816	04/25/R	\$	Theilium	94.42			90.400	75.300	
		J816	04/25/R2	8	Zine	96.19			9.700	7.230	100
		J876	08/25/RP	8	Zine	95.97			97.900	72.000	
		J816	01/25/92	. 8	21nc	91.38			98.400	99.000	UGG
*	ACD	J816	09/65/92	8	Silver	65.72			0.786	0.498	VAC
		J016	09/02/35	8	Silver	75.16			7,930	7.300	
		JE16	09/88/72	8	Silver	75,26			7.000	7.480	
		JE16	01/10/16	8	Baryllium	165.60			4,900	5.100	1000
		J076	09/48/18	8	Buryllius	101.01			49.500	99.000	-
		JE16	01/01/N		Corytika	78.40			49.900	49.200	
		J\$16	W/W/W		Guidaleate	100.61			4.910	4.740	
		JE16	00/00/NE		Controlor	75.36			40.500	47.300	
		J016	0)/E/R	1	Codofee	15.77			40.980	45.400	

notes for Bule-Flager 1 = Results last than CRL but greater than CBD, it = Analyse required for reporting purposes but not currently correlfied, it = Analyse resource outside of cortified range but within ecceptable limits

Topole-Horth Phase I RFI Standard Matrix Sample Results

	Let	Test Nethed	Analysis Data	ec Test	Chanical Name	· Result	Bets Flags	Date Qualifiers	Spiked Concen.	Recevered Conson.	Uni
B	ACD	J816	09/63/92	8	Chronium	162.85		,	7.820	10.100	UĐ
		J816	09/63/92	8	Chremium	76.46			99.800	95.500	UB
		JE16	09/63/92	8	Chresius	93.69			77.800	75.500	UG
	•	J816	09/63/92	p:	Copper	101.02			4.910	4.960	U
		JS16	09/03/92	8	Cepper •	190.00			49.500	49.500	UE
		JS16	09/03/92	8	Copper	96.79			49.900?	48.300	U
		J\$16	09/63/92	\$	Hickel	94.09			4.910	4.620	U
		J 816	09/63/92	\$	Hickel	92.73			49.500	45 .90 0	UE
		J316	09/63/92	\$	Nickel	91.18			49.900	45.500	U
		J\$16	09/03/92	\$	Thelitum	119.14			9.820	11.700	U
		J\$16	09/63/92	\$	Theilium	100.51			99.000	99.500	U
		JS16	09/03/92	\$	Thellium	95.39			99.800	95.200	U
		J\$16	09/03/92	\$	Zinc	95.82			9.820	9.410	U
		J 5 16	09/03/92	\$	Zinc	93.54			99.000	92.600	U
		J\$16	09/03/92	\$	Zine	91.98			99.800	91.800	U
3	APA	58 01	08/17/92	\$	Norcury	92.40			0.500	0.442	U
		58 01	06/17/92	8	Hercury	87.60			2.500	2.240	U
		9901	08/17/92	\$	Hercury	92.40			2.500	2.310	U
}	APS	\$801	08/13/92	\$	Hereury	97.80			0.500	0.489	U
•		9001	08/13/92	8	Hercury	110.40			2.500	2.760	U
		2001	00/13/92	8	Hercury	112.00			2.500	2.800	U
i	APG	8001	08/28/92	\$	Norcury	98.00			0.500	0.490	u
		2001	08/28/92	\$	Hercury	100.40			2.500	2.510	U
		990 1	08/28/92	\$	Mercury	102.40			2.500	2.560	U
3	ARA	LW12	09/02/92	\$	1,3,5-Trinitrebenzene	90.43			1.150	1.040	u
		LW12	09/02/92	8	1,3,5-Trinitrobenzene	90.24			9.220	8.320	U
		LW1Z	09/02/92	\$	1,3,5-Trinitrobenzene	92.08			9.220	8.490	u
		LW12	09/02/92	\$	2,4,6-Trinitrotoluone	102.73			1.100	1.130	U
		LW12	09/02/92	\$	2,4,6-Trinitroteluene	97.27			8.800	8.540	U
		LW12	09/02/92	8	2,4,6-Trinitreteluene	97.73			8.800	8.400	u
		LW12	09/02/92	8	2,4-0 ini treteluene	94.31			1.230	1.160	U
		LW12	09/02/92	8	2,4-Dinitroteluene	90.75			9.840	8.930	U
		LW12	09/02/92	\$	2,4-Dinitroteluene	91.16			7.840	8.970	U
		rnis	09/02/92	8	2-Hitrotoluone (TIC)	97.95			0.530	0.517	u
		rmis	09/02/92	8	2-Hitreteluene (TIC)	95.18			22.800	21.700	U
		LW12	09/02/92	8	2-Hitretoiusne (TIC)	94.05			22.800	21.900	u
		MIS	09/02/92	8	Hi trabanzane	105.47			3.000	3.170	U
		LW12	09/02/92	8	Ni trabanzana	102.92		•	24.000	24.700	U
		TM15	09/05/95	8	N1 trabansane	104.58			24.000	25.100	U
		LW12	09/02/92	8	Cyclenite (NBK)	91.62			1.100	1.810	u
		ra15	09/02/92	8	Cyclenite (RBX)	8.8 5			8.790	7.810	U
		MIS	09/05/15	8	Cyclenite (MBX)	91.81			8.790	8.070	U
	ARR	rnus	09/01/92	8	1,3,5-Trinitrebensene	80.52			1.190	0.794	u
		TN15	09/01/92	8	1,3,5-Trinitrabaneano	87.74			7.230	8.070	
		TAUS.	09/01/02	8	1,3,5-Trinitrobensons	87.96			7.220	8.110	V
		MIS	09/01/92	8	2,4,6-Trini trotoluone	101.82			1.100	1.130	ì
		LIM3	89/81/TE	8	2,4,6-Trinitrotoluono	95.34			8.800	8.300	Ü
		MIS	09/01/92	8	2,4,6-Trinitrotolumo	95.57			8.800	8.410	í

Notes for Seta Flaga: 1 = Results Less than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently cortified, X = Analyte recovery outside of cortified range but within asseptable Limits

Tapelgrifersh Ships 1 GF1 Starderd Hetrix Sample Sucutes

Lab	Lot	Test Nothed	Analysis Bate	ec Test	Chamient Home	Result (%)	Dota Flags	Data Qualifiers	aptited Consun.	Receivered Cunsen.	Unit
23	ARS	LW12	09/01/92	8	2,4-0initretoluene	98.37			1.230	1.210	UGS
		LV12	09/01/92	\$	2,4-0 ini trotolusno	95.12			7.040	7.300	H8:
		LW12	09/01/92	\$	2,4-91nitrequiume	96.86			7.068	7.450	US.
		FRIE.	09/01/92	8	2-Hitrotolungo (TIC)	97.92			0.536	0.519	UBG
		LU1Z	09/01/92	8	Z-Hitreteluine (TIC)	92.11		_	22.800	21.000	UOS
		LTAIS	09/01/92	8	2-Hitrotoluono (TIC)	%.30		•	22.800	21.500	UOS
		LU12	09/01/92	\$	2-Hitrotoluone (TIC)	98.65			45.400	44.700	UGG
		LW12	09/01/92	\$	Nitrobensone	106.67			3.000	3.200	100
		LW12	09/01/92	8	Nitrobensono	102.50			24.000	24.400	UGG
		LW12	09/01/92	8	Hitrobenzene	102.50			24.000	24.600	UGS
		LW12	09/61/92	8	Cyclonite (MDK)	97.27			1.100	1.070	UGG
		LV12	09/01/92	\$	Cyclenite (RDK)	87.83			8.790	7.720	UES
		LW12	09/01/92	\$	Cyclenite (10%)	86.51			8.790	7.780	uçe
ES	ASK	00	06/20/92	\$	Total petroloum hydrocorbons	102.48			1120.000	1150.000	UGG
ES	AYP	00	08/12/92	\$	Total petroleum hydrocerbans	79.67			4180.800	3330.000	UGL
		00	06/12/92	8	Total petroleum hydrocerbons	79.67			4188.800	3330.000	UCL
ES	BOC	KF14	08/17/92	8	Total phosphetes	103.50			20.000	20.700	USS
		KF14	08/17/92	8	Total phosphotos	96.75			80.000	77.400	100
		KF14	08/17/92	\$	Total phosphates	97.43			80.000	78.100	
!S	880	KF14	07/29/92	8	Total phosphotos	92.50			26.000	18.500	
		KF14	07/29/92	8	Total phosphetos	96.50			80.000	77.200	USS
		KF14	07/29/92	8	Total pheephetes	99.25			80.880	79.460	UBG
	386	KY01	06/23/92	8	Cyanide	90.40			1.770	1.400	UGG
		KY01	06/23/92	8	Cyanide	90.91			7.260	6.600	UGG
		KY01	06/23/92	8	Cyanide	165.10		•	7.260	7.430	UGG
ES	DEE	KY01	08/04/72	8	Cyenide	101.04			1.930	1.950	UGG
		KYO1	08/64/45	8	Cyanide	101.56			7.700	7.820	nee
		KYO1	06/04/92	\$	Cyanide	162.21			7.700	7.870	DOC
18	CION	unts	02/12/13	8	2,4,6-?ribramsphanel	54.00			100.000	54.000	UGL
		LINTS.	02/12/95	8	2-Fluorobiphonyl	72.00			50.000	36.000	UCL
		unt8	02/12/75	8	2-Fluorephenol	96.00			100.000	56,000	UEL
		LIFTS	02/12/95	8	Ni trobensono-05	74.00			50.000	37.000	UEL
		W118	62/12/95	8	Phonoi -06	41.80			100.000	41.000	UGL
		UH18	02/12/93	8	Torphonyl -014	98.00			90.000	49.000	MET
16	CVEA		02/12/95	\$	1,2-01chloroothene-04	92.00			0.050	0.046	UBS
		LH19		8	4-Bransflutrobungane	108.00			9.050	0.054	UBG
		LINIT	62/12/93	8	Tolutne-86	96.00			0 .050	0.067	UB C
	BOPA	U/QP	02/05/95	\$	1,2-Dichtereethene-94	12.00			90.000	44.000	WIL
			02/45/55	8	4-Granof Lucrabornana	104.00			90.000	52.000	WEL.
			02/05/95	\$	Tolune-06	104.00			90.000	\$2.000	9 4470
		1000			1,2-Oldhlereethene-04	M.00			39.000	44,000	<u></u>
				8	4-Brazoftatirabareana	102.00			50.000	51.000	
			62/12/15	8	Tolunno-05	100.00			50,600	90.000	

notes for Bots Flags: 1 - Results less than CRL but greater thin CED, E - Analyte required for reporting purposes but not extractly cortified, X - Analyte recovery outside of cortified rungs but within asseptable Limits

Toccie-North Phase I RFI Standard Matrix Sample Results

-	Let	Test Method	Analysis Dete	ec Test	Chanical Hann	Moult (%)	Data Flags	Data Qualifiers	Spiked Consen.	Recovered Concen.	Uni
B	BOLA	UNI20	02/10/95	8	1,2-Bichloreethane-Bi	96.00			50.000	48,000	عد
		fb(50	02/10/93	8	4-Bromofi wordbandene	76.00			50.000	49.000	UE
		rh(50	02/10/93	\$	Tolume-96	100.00	•		50.000	50.000	UG
E	DEDA	TT10	02/09/93	\$. Branida	91.80	1		1000,000	918.000	UG
		TT10	02/99/95	8	Branide	100.00			20000.000	20000.000	UE
		TT10	02/09/93	8	Branide	100.60			20000,000	20000.000	UE
		TT:10	02/09/93	8	Chloride	93.00			4000,000	3720,000	UK
		TT10	02/09/93	\$	Chloride	99.60			25000,000	24900.000	u
		TT10	02/00/93	8	Chteride	100.00			25000.000	25000.000	UE
		TT10	02/09/93	\$	fluoride	92.40			2300,000	2310.000	UE
		TT10	02/09/93	\$	Fluoride	90.93			7500.000	4620,000	UE
		TT10	02/09/93	8	Flueride	91.20			7500.000	6840.000	UE
		TT10	02/09/93	.\$	Sulfate	87.50			20000.000	17500,000	UE
		TT10	02/09/93	8	Sul fate	99.40			50000.000	249000.000	UE
		TT10	02/09/93	8	Sulfate	100.00			50000.000	250000.000	U
8	ODF	W17	05/27/92		Ni tremunidine	91.73			61,700	E4 400	
		W17	05/27/92	8	Hitrogranidine	94.95			493,000	56.600	U
		W17	05/27/92	8	Nitrogusnidine	96.96			495.000	448.000 478.000	UE
	36	UN17	06/18/92	8	#itremanidine						
		UU17	06/18/92	•	Ni trepunidine	89.18 96.08			534.000	478.000	u
				•		70.00			534.000	515.000	u
•	CME	LWIS	06/06/92	8	Hitraguanidine	95.69			0.789	0.755	UE
		LU1S	04/08/92	•	Ni treguenidine	5.70			7.900	6.770	U
		LV15	06/08/92	8	Hitrogusnidine	86.58			7.900	6.840	U
3	ONF	LW15	06/19/92	\$	Nitrogusnidine	106.46			0.790	0.841	u
			06/19/92	8	Ni troguenidine	24.97			7.900	7.030	U
		LW15	06/19/92	8	Hitrogusnidine	90.38			7.900	7.140	U
3	200	LW15	06/16/92	1	Nitropunidine	82.78				A 494	
	_	LWIS	06/16/92	\$	Hitrogranidine	87.09			0.790 / 7.900	0.654	U
			06/16/92	8	Witregustidine	94.56			7.900	6. 88 0 7.470	U
									7.700	7.474	· ·
1	PGZ		05/21/12	8	Silven	38.18			0.969	0.370	UE
		UN14	05/21/92	2	2,4-Dichlorephenoxymeetic acid / 2,4-D	33.78			1.880	0.435	U
	RMY	LUTT	07/31/92	8	Silven	112.62			0.078	0.000	u
		LIII	97/31/92	8	2,4-Dichlorephenexyesetic acid / 2,4-D	94.00			0.150	0.141	u
	VAR.	TF18	05/15/92	8	Cyanide	444 44					
			05/15/92	•	Cyanide	111.46			9.600	18.700	U
			65/15/92	•	Cyunide	99.17 100.00			24.166 24.160	23.900 24.100	U
			04 440 							24.100	-
1	707		06/12/92		Cyanide	75.94			7.600	7.290	u
			96/12/92	8	Cyanida	45.40			24.100	20.100	u
		·F 10	06/12/92	8	Cyunide	45.40			24.100	20.100	u
	**		06/22/92		Cyanide	90.73			7.600	8.710	
		TPTS	04/22/12	8	Cyanide	95.44			24,100	23.000	u

Hotes for Bate Flage: 1 = Resists Lose than CRL but greater than COD, R = Analyte required for reporting purposes but not currently cortified, X = Analyte receivery outside of cortified range but within acceptable limits



Techio-Harth Plince I AFI Standard Matrix Sciple Acculto

	Let	Test Hethed	Analysis Date	ec Test	Chamical Name	Repult (%)	Deta Flags	Dete Qualifiers	Spiked Cencen.	Resevered Conson.	Unit
13	W0	TF18	04/22/92	\$	Cyaride	94.48			24.100	23.300	UGL
ES	WAR	TF18	07/06/92		Cyanide	109.38			9.400	10.500	UC.
		TF18	07/06/92	8	Eyenide	102.07			24.100	24,400	USL
		TF18	07/06/92	8	Cyanide	107.47			24.100	25.900	UGL
8	W	TF18	07/10/92	\$	Cyanide	76.85			7.600	9.490	UGL
		TF18	07/10/92	\$	Cyanide	92.53			24.100	22.300	ner
		TF18	07/10/92	\$	Cyanida	105.81			24.100	25.500	UEL
8	WIT	TF18	07/21/92	\$	Cyenide	118.75			7.600	11,400	UGL
		TF18	07/21/92	\$	Cyenide	100.00			24.100	24.100	UGL
		7F18	07/21/92	\$	Cyanida	100.00			24.100	24.108	UEL
:5	WU	7F18	07/22/92	\$	Cyanida	106.25			9.400	10.200	UGL
	•	TF18	07/22/92	\$	Cyanide	94.19			24.100	22.700	UGL
		TF18	67/22/92	8	Cyunide	92.76			24.100	23.860	UGL
	w	1F18	08/03/92	\$	Cyunide	87.40			7.600	8.410	UGL
		TF18	08/05/92	8	Cyanida	95.36			24.100	22.500	UEL
		1F18	08/63/92	8	Cyenide	101.24			24.100	24.400	USL
3	WW	TF18	06/11/92	\$	Cyunide	90.43			9.400	8.700	
		TF16	08/11/92	8	Cyanida	102.49			24.100	24.700	
		TF18	06/11/92	8	Cyunide	162.49			24.100	24.700	UGL
13	YAR	1718	08/20/92	\$	Cyunide	97.50			7.400	9.360	UGL
		TF18	08/29/92	\$	Cyenide	104.15			24.100	25.100	ue.
		TF18	08/20/92	\$	Cyenide	104.15			24.100	25.100	UGL
ES .	XXX	KT05	06/12/92	\$	Branide	63.20			10.000	8.320	UGG
		KT05	06/12/92	\$	Chloride	57.60			12.500	11.200	UGG
		KT05	06/12/92	8	Chloride	%.00			90.000	86.400	UGG
		K705	06/12/92	\$	Chloride	%.22			90.000	86.400	UGG
		KT05 KT05	06/12/92	\$ \$	Fluoride Fluoride	104.44 117.25			6.250 46.000	6.540 46.900	990 990
		KT05	06/12/92	•	fluoride	118.00			40.000	47.200	100
		K105	06/12/72	i	Sulfate	85.80			125.000	111.000	UGS
		1765	06/12/12	•	Sulfate	5.8			400.000	373.000	UBG
		KT95	06/12/92	\$	Sulfete	5.8			400.000	373.000	UCC
15	2017	K165	06/34/92	8	Chlorido	88.00			12.500	11.000	ues
_		KT65	86/24/92	8	Chloride	95.89			90.000	84.500	UBS
		KT05	06/24/92	8	Chloride	94.36			90.000	85.100	UBS
		KT 05	06/34/12	8	Sulfate	96.80			125.000	121.000	UOC
		K705	06/24/92	\$	Suifate	91.25			400.000	365.600	UNI
		KTIS	06/34/92	8	Sulfate	92.75			489.000	371.000	UNI
-	100	KT85	N/31/72	8	Chloride	94.40			12.500	11.800	uet
		KT05	06/30/FE	. \$	Chlorido	95.36			90.000	84.200	
		KTES	06/30/72	8	Chlorido	75.00			10.000	85.300	
		KTOS	04/30/72	8	Sulfate	75.20			125.000	119,000	
		E765	N/31/12	8	Sulfate	99.75			400,000	368.000	

Notes for Bots Flags: 1 = Results Loss than CRL but greater than CRD, R = Analyze required for reporting purposes but not currently certified, X = Analyze recovery cutside of certified range but within asseptable limits

Topele-Herth Phase I RFI Standard Matrix Sample Results

ab	Lot	Test Hethod	Analysis Date	QC Test	Chamical Name	Result (%)	Data Flags	Data Qualifiers	Spiked Concen.	Recovered Concen.	Uni
\$	XXXI	KT05	06/30/92	s	Sulfate	93.00			400.000	372.000	UG
-			_		•						
\$	XIIV	KT05	07/06/92	\$	Chloride	98.40			12.500	12.300	UE
		KT05	07/06/92	\$	Chloride	102.67			90.000	92.400	U
		KT05	07/06/92	\$	Chloride	102.67			90.000	92.400	U
		KT05	07/06/92	\$	Sulfate -	97.60			125.000	122.000	U
		KT05	07/06/92	\$	Sulfate	98.50			400.000	394.000	u
		KT05	07/06/92	\$	Sul fate	98.50			400.000	394.000	U
	XIII	KT05	07/09/92	\$	Chloride	99.20			12.500	12.400	U
		KT05	07/09/92	\$	Chloride	103.33			90.000	93.000	u
		KT05	07/09/92	\$	Chloride	103.78			90.000	93.400	U
		KT05	07/ 09/9 2	\$	Sulfate	97.60			125.000	122.000	U
		KTQ5	07/ 09/92	8	Sulfate	99.50			400.000	398.000	Ų
		KT05	07/ 09/9 2	\$	Sulfate	100.25			400.000	401.000	U
3	XXX	KT05	07/13/92	\$	Chloride	100.80			12.500	12.600	u
		KT05	07/1 3/9 2	\$	Chloride	100.56			90.600	90.500	L
		KT05	07/13/92	S	Chloride	101.11			90.000	91.000	ŧ
		KT05	07/13/ 9 2	\$	Sulfate	96.00			125.000	120.000	L
		KT05	07/13/92	\$	Sulfate	97.50			400.000	390.000	ı
		KT05	07/13/92	\$	Sulfate	98.00			400.000	392.000	ı
YNY	KT05	07/16/92	\$	Chloride	96.00			12.500	12.000	į	
		KT05	07/16/92	\$	Chloride	103.00			90.000	92.700	ŧ
		KT05	07/16/92	\$	Chloride	104.11			90.000	93.700	
		KT05	07/16/92	\$	Suifate	95.20			125,000	119.000	ι
		KT05	07/16/92	s	Sulfate	99.75			400.000	399.000	ι
		KT05	07/16/92	S	Sulfate	101.00			408.000	404.000	ı
	XHZ	KT05	07/20/92	s	Chloride	97.60			12.500	12.200	ι
		KT05	07/20/92	\$	Chioride	103.11			90.000	92.800	1
		KT05	07/20/92	\$	Chloride	103.11			90.000	92.800	ı
		KT05	07/20/92	\$	Sulfate	96.80			125.000	121.000	i
		KT05	07/20/92	\$	Sulfate	100.50			400.000	402.000	ì
		KT05	07/20/92	\$	Sulfate	100.75			400.000	403.000	ì
	XIU	TT10	05/27/92	\$	Branide	59,50			2000.000	1190.000	
		TT10	05/27/92	S	Branide	102.50			20000.000	20500.000	ì
		TT10	05/27/92	\$	Sranide .	102.50			20000.000	20500.000	ì
		TT10	05/27/92	8	Chloride	95.25			4000.000	3810.000	i
		TT10	05/27/92	\$	Chloride	101.40			25000.000	25400.000	
		TT10	05/27/92	•	Chloride	101.40			25000.000	25400.000	
		TT10	05/27/92	•	Sulfate	90.50			20000.000	18100.000	
		TT10	05/27/92	•	Sulfate	100.80			50000.000	252000.000	
		TT10	05/27/92	•	Sulfate	101.20		_	5000.000	253000.000	
}	XIV	TT10	04/23/92	8	Chieride	92.75			4000.000	3710.000	. (
•	~~ *	TT10	06/23/92	•	Chloride	102.00			25000.000	25500.000	
		TT10	04/25/92	•	Chloride	102.80			25008.000	25700.000	
		1110	06/23/92	•	Sulface	87.50			20000.000	17900.000	
		TT10	04/23/92	•	Sulfate	190.40		•	20000.000	251000.000	
				•						لكتناء والتنصيب براي) 1

Notes for Data Fings: 1 = Results less than CRL but greater than CED, R = Analyte required for reporting purposes but not ourrently contified, X = Analyte recovery outside of contified range but within acceptable limits



Tookle-Borgh Music 1 8F1 Standard Matrix Sample Agoutts

•	Let	Teet Nothed	Analysis Date	ac Test	Chemical Mano		nts Dote Logs Qualifiers	Apfiled Concept.	Resovered Censen.	Uni t
3	XIW	TT10	67/07/92	8	Chieride	73.50		4000.000	3740,000	UGL
		TT10	07/07/92	\$	Chieride	100.40		25006.000	25100.000	UGL
	•	TT10	97/97/92	\$	Chloride	100.80		25000.000	25200.000	UGL
		TT10	07/07/92	3	Sulfate	87.50		20000.000	17500.000	UEL
		TT10	07/37/92	•	Sulfate	100.80	2	50000.000	252000.000	UGL
		TT10	07/07/92	\$	Sulfate	100.80	2	50000.000	252000.000	ner
*	XIX	TT10	07/15/92	\$	Chloride	92.25		4000.000	3690.000	UGL
		1710	07/15/92	\$.	Chteride	100.40		25000.000	25100.000	UGL
		TT10	07/15/92	\$	Chieride	100.80		25000.000	25200.000	UGL
		TT10	07/15/92	8	Sulfate	89.50	_	20000.000	17900-900	UGL
		TT10	07/15/92	8	Sulfate	100.40	-	50000.000	251000	UCL
		TT10	07/15/92	\$	Sulfate	100.80	•	50000.000	252000.	UGL
3	XIX	TT10	07/21/92	\$	Chloride	91.75		4000.000	3670.000	UGL
		TT10	07/21/92	\$	Chloride	100.40		25000,000	25100.000	JEL
		TT10	07/21/92	\$	Chloride	100.80		25000.000	25200.000	يا <u>ڪن</u> محدد
		1710	07/21/92	8	Sulfate	97.00		20000.000	17800.000	UGL
		TT10	07/21/92	\$	Suifete	100.80	_	50000.000	252000.000 252000.000	
		TT10	07/21/92	\$	Sulfate	100.80	•	50000.000	200.00	
3	XIZ	1710	07/29/92	\$	Srenido	89.60		2000.000	1600.000	
		1110	07/29/92	8	Branide	101.50	•	20000.000	20300,000	U
		TT10	07/29/92	8	Branide	101.50		20000,000	20300.000	UEL
		1110	07/29/92	8	Chloride	101.86		8000.000	8150.000	UGL
		TT10	07/29/92	8	Chloride	100.00		25000.000	25000.000	UEL
		TT10	07/29/92	\$	Chieride	100.00		25000.000	25000.000	ner
		TT10	07/29/92	\$	Fluoride	97.60		5000.000	4880,000	UGI
		TT10	07/29/92	\$	fluoride	93.87		7500,000	7040.000	UG
		TT10	07/29/92	8	fluoride	94.40 87.5 0		7500.000 20006.000	7080.000 17900.000	UG
		TT10	07/29/92	\$	Sulfate	100.40		250000.000	251000.000	UG
		TT10 TT10	07/ 29/92 07/ 29/9 2	\$ \$	Sulfate Sulfate	100.40		250000.000	251000.000	UE
		****		_	Patal shasshabas	118.50		***	23.700	2.000
*		KF14	06/26/92	\$ \$	Total phosphotos Total phosphotos	190.88		20.000 80.000	80.700	
		KF14 KF14	06/26/92	•	Total phosphetos	104.38		80.000	83.500	UG
*	2002	KF14	06/27/92		Total physphotos	77.50		0.000	0.042	. UG
•	<i></i>			•		80.31		0.320	0.257	
		KF14 KF14	06/27/92 06/27/92		Total phasphates Total phasphates	43.13		0.320	0.266	
8	-	KF14	07/06/92		Total ghashetës	9 2.00		20.600	18.400	
		KF14	07/06/92		Total pheephotos	94.73		80.000	75.800	
		KF14	07/04/92		Total phosphotos	96.43		80.000	77.300	
B		KF14	07/13/92		Total pheephotes	93.25		20.000	74.400	u
-		EF14	07/13/92		Total phosphetes	95.13	•	80.000	76.100	
		KF14	97/21/92	8	Total pheaphatas	15.00		20.000	18.400)
•		6714	07/21/92		Total phosphotos	15.50		85,000	74.800	_
		EP14	97/21/92		Total phosphases	%.25		20,000	77.00	

Notes for Data Flaga: 1 = Results Look than CRL but greater than CCD, R = Analyte required for reporting purposes but not extractly cortified, X = Analyte resovery outside of cortified range but within acceptable limits

Tooels-North Phase I RFI Standard Matrix Sample Results

Lab	Lot	Test Nethod	Analysis Date	Test	Chemical Name	Result (%)	Data Flags	Deta Qualifiers	Spiked Cancen.	Recovered Concen.	Unit
ES	WW	KF14	07/16/92	\$	Total pheephates	105.00			20.000	21.000	UGG
		KF14	07/16/92	\$	Total phosphotos	99.38			80.000	79.500	UGS
		KF14	07/16/92	8	Total phosphates	101.25			80.600	61.000	ucc
ES	XXX	KF14	07/29/92	\$	Total phosphetes	92.50			20.000	18.500	UGS
		KF14	07/ 29/9 2	S	Total phosphates	96.50			80.000	77.200	UGG
		KF14	07/29/92	S	Total phosphates	99.25			80.000	79.480	UGG
ES	XPCK	KF14	08/09/92	\$	Total phosphetes	85.60			25.000	21.400	UGG
		KF14	08/09/92	\$	Total phosphates	93.29			85.000	79.300	UGG
		KF14	08/09/92	S	Total phosphates	93.29			85.000	79.300	UGG
ES	XMY	KF14	08/17/92	\$	Total phosphetes	103.50			20.000	20.700	UGG
		KF14	08/17/92	\$	Total phosphates	96.75			80.000	77.400	UGG
		KF14	08/17/92	\$	Total phosphates	97.63			80.000	78.100	UGG
E\$	XOV	\$009	05/18/92	\$	Theilium	95.00			10.009	9.500	UGL
		2009	05/18/92	8	Thellium	89.00			20.000	17.800	UGL
		2009	05/18/92	\$	Thellium	95.00			20.000	19.000	UGL
•	.oz	SD09	06/18/92	\$	Theilium	94.00			10.000	9.400	UCL
		2009	06/18/92	\$	Thellium	92.00			20.000	18.490	UGL
		3D09	06/18/92	3	Thattium	93.00			20.000	18.600	UGL
ES	XRR	UH02	05/15/92	\$	PCB 1016	80.00			3.750	3.000	UGL
		UH02	05/15/92	S	PCB 1260	85.33			3.750	3.200	UGL
E S	XTW	SD21	05/18/92	\$	Selentum	96.00			5.000	4.800	UGL
		\$021	05/18/92	\$	Selenium	96.93			75.000	72.700	UGL
		\$021	05/18/92	\$	Setenium	98.13			75.000	73.600	UGL
ES	CHIX	\$ 020	05/18/92	\$	Lead	96.00			10.000	9.600	UGL
		\$020	05/18/92	5	Leed	101.13			80.000	80.900	UGL
		8020	05/18/92	8	Lead	101.86			80.000	81.500	UGL
ES	XMU	\$020	06/17/92	\$	Lead	98.00			10.000	9.800	UCL
		5020	06/17/92	\$	Leed	94.75			80,000	75.800	UGL
		\$020	06/17/92	8	Lead	96.00			80.000	76.800	UGL
ES	XLIX	SD20	07/15/92	\$	Leed	81.00			10.000	8.100	UCA
		3020	07/15/92	\$	Leed	97.38		•	80.000	77.900	
		5020	07/15/92	\$	Lead	96.13			80.000	78.500	UGI
is.	XXL	TF22	05/14/92	\$	Mitrite, nitrate - nonspecified	96.00			20.000	19.200	UGI
		TF22	05/14/92	8	Mitrite, nitrate - nonepecified	98.00			150.000	147.000	
		1722	05/14/92	8	Mitrite, nitrate - nonepacified	98.67			150.600	148.000	UCL
ES.	X381	TF22	06/22/92		Mitrite, mitrate - memoposified	90.50			20.000	19.700	UB
		TF22	06/22/92	8	Hitrite, nitrete - nonepecified	101.33			150,000	152.000	
		TF22	06/22/92	8	Mitrite, nitrate - namepecified	101.33			150.000	152.000	U
		1722	07/01/92								ue

Hotes for Date Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently cortified, X = Analyte recovery outside of cortified range but within acceptable limits



Totale-Marth Plays : 875 Standard Matrix Sample Regults

Lab	Let	Test Nethed	Anelysis Dete	oc Test	Chamical Hane	Result (%)	Data Flags	Data Qualifiers	Spilted Concen.	Recovered Concern.	Unite
E18	XXXX	1722	07/01/92		Hitrite, nitrate - nonapecified	96.67			150.000	145.000	UGL
		1722	07/01/92	8	Nitrite, nitrate - nonspecified	97.33			150.000	146.000	URL
E13	XXX0	1722	07/14/92	\$	Hitrite, nitrate - nonepecified	76.50			26.000	19.700	UQL
		TP22	07/14/92	8	Hitrite, nitrate - manapacified	97.33			150.000	149.000	UGL
		1722	07/14/92	8	Mitrite, nitrate - managecified	99.33			150.000	149.000	UGL
ES	XXP	TF22	08/04/92	8	Hitrite, nitrate - nonepacified	96.00			20.000	19.200	UGL
		TF22	08/06/92	\$	Hitrite, mitrate - monapacified	98.67			150.000	148.000	UEL
		TF22	08/06/92	\$	Mitrite, nitrate - monspecified	99.33			150.000	149.000	UGL
ES	XXX	TF22	08/19/92	\$	Mitrite, nitrate - nonspecified	96.50			20.000	19.300	UGL
		TF22	08/19/92	\$	Mitrite, nitrate - nonspecified	101.33			150.000	152.000	UGL
		TF22	08/19/92	\$	Hitrite, nitrate - monopecified	102.00			150.000	153.000	UGL
ES	XXS	1 F22	09/01/92	\$	Mitrite, nitrate - nonepecified	99.60			20.000	19.800	UGL
		TF22	09/01/92	8	Hitrite, nitrate - nonspecified	99.33			150.000	149.000	NGT
		TF22	09/01/92	\$	Hitrite, nitrate - manapacified	100.00			150.000	150.000	UGL
£	YAT	LW12	06/08/92	8	1,3,5-Trinitrebenzene	71.81			1.380	0.991	UGG
		LW12	06/09/92	8	1,3,5-Trinitrobenzene	81.67			9.220	7.530	ugs
		LW12	06/09/92	8	1,3,5-Trinitrebensene	84.77			9.220	8.000	
		LW12	04/08/12	8	2,4,6-Trinitrotoluene	25.23			1.320	1.100	
		FA15	06/09/92	8	2,4,6-Trinitrateluane	93.30			8.800	8.210	
		LW12	06/69/92	8	2,4,6-Trinitretoluene	99.43			8.800	8.750	Ubc
		LW12	04/08/12	8	2,4-Dinitretoluene	45.24			1.480	1.010	U00
		W13	06/09/92	8	2,4-Binitretoluene 2,4-Binitretoluene	75.91 81.00			9.840 9.840	7.470 7. 97 0	99U 29U
		FR15	04/08/92	•	2-Hitrotolume (TIC)	82.08			0.636	0.522	
		LW12	04/09/92	•	2-Hitrotoluene (TIC)	91.67			22.800	20.900	
		LW12	06/09/92	•	2-Hitrotolugne (TIC)	96.05			22.800	21.900	
		LV12	04/09/92	8	2-Nitrotolugne (TIC)	95.83			45.400	43.700	
		LW12	06/08/92	8	Ni trobenzene	82.43			3.670	3.040	UGG
		LW12	04/09/92	8	Ni trebenzane	89.39			24.500	21.900	UGG
		LW12	06/09/92	8	Nitrobenzene	95.92			24.500	23.500	UGG
		LW12	06/06/35	8	Cyclenite (RBX)	84.07			1.320	1.110	UGG
		LW12	06/09/92	8	Cyclenite (RDK)	88. 17			8.790	7.750	
		LW12	06/09/92	8	Cyclanite (RBK)	73.86			8.790	8.250	UGG
ES	YAY	LW12	06/21/92	8	1,3,5-Trinitrobensone	53.48			1.150	0.415	UGG
		LW12	09/51/45	8	1,3,5-Trinitrobantane	76.77			7.ZZ0	7.000	
		TA15	06/21/92		1,3,5-Trinitrobenzene	86.59			7.220	7.430	
		FRIS	06/21/92	8	2,4,6-Trinitrotoluene	86.55			1.100	0.952	
		LMIS	06/21/92		2,4,6-Trinitrotelusmo	76.52			8.800 8.800	8,470 8,960	
		LV12	06/21/92		2,4,6-Trinitrotoluene 2,4-Binitrotoluene	101.82 74.88			1.230	8.980 0.921	
		rn13 rn13	06/21/92		2,4-9initroteluses	#.42			7.840	8,110	
		TRUS	06/21/92		2.4-Dini tratelum	5.8			7.840	8.370	
		FRUS	06/21/72		2-Hitrotolygne (TIC)	86.42			0.530	0.430	
		TAUS.	04/21/72		2-Hitrotolyane (TIC)	106.58			22.800	24.30	-
		LIME	04/21/72		2-Mitrotolyano (TIC)	109.45			22.800	25.000	
		MIS	06/21/98		2-Hitrotolyano (TIC)	96.27			45.400	43.90	
		LIN13	06/21/92		Hitrobensene	80.07			3.000	2.400	

Notes for Bots Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not our all the contribution of contified range but within asseptable limits

Topele-North Phase I RFI Standard Matrix Sample Results

	Lot	Test Nethed	Analysis Date	QC Test	Chamical Name	Result (%)	Data Flags	Deta Qualifiers	Spiked Concen.	Recovered Concen.	Un
	YAY	LW12	06/21/92	\$	Mitrobengene	93.86	_	 	24.500	23.000	U
		LW12	06/21/92	\$	Hitrobenzene	95.10			24.500	23.300	U
		LW12	06/21/92	\$	Cyclonite (RDX)	100.00			1.100	1.100	ı
		LW12	06/21/92	\$	Cyclonite (RDX)	95.68			8.790	8.410	
		LW12	06/21/92	\$	Cyclonite (RDX)	96.02			8.790	8.440	
	YAM	LW12	06/23/92	s	1,3,5-Trinitrobenzene	23.13			1.150	0.266	
		LU12	06/23/92	\$	1,3,5-Trinitrobenzene	72.13			9.220	6.650	
		FR1S	06/24/92	S	1,3,5-Trinitrobenzene	74.84			9.220	6.900	
		LW12	06/23/92	S	2,4,6-Trinitrotolume	68.00			1.100	0.748	
		LU12	06/24/92	S	2,4,6-Trinitrotolume	97.27			8.800	8.560	
		LW12	06/23/92	\$	2,4,6-Trinitrotolume	97.50			8.800	8.580	
		LW12	06/23/92	S	2,4-Dinitrotoluene	80.89			1.230	0.995	
		LW12	06/24/92	\$	2,4-Binitrotoluane	83.94			9.860	8.260	
		LW12	06/23/92	\$	2,4-Dinitrotolume	87.09			9.840	8.570	
		LW12	06/23/92	\$	2-Hitrotoluene (TIC)	97.55			0.530	0.517	
		LW12	06/23/9 2	\$	2-Hitrotoluene (TIC)	109.21			22.800	24.900	
		LW12	06/34/92	\$	2-Hitrotoluene (TIC)	109.21			22.800	24.900	
		LW12	06/54/92	\$	2-Hitrotolumne (TIC)	100.44			45.600	45.800	
		LV12	06/23/92	\$	Mitrobenzone	92.16			3.060	2.820	
	LW12	06/24/92	S	Hitrobonzone	94.29			24.500	23.100		
	LW12	06/23/92	\$	Mitrobenzone	96.73			24.500	23.700		
		LW12	06/23/92	\$	Cyclonite (RDX)	117.27			1.190	1.290	
		LW12	06/24/92	S	Cyclonite (ROX)	96.47			8.790	8.480	
		LW12	06/23/92	S	Cyclonite (RDX)	97.84			8.790	8.600	
	YAZ	LW12	07/02/92	\$	1,3,5-Trinitrobenzene	84.17			1.150	0.968	
		LN1S	07/02/92	\$	1,3,5-Trinitrobenzene	85.90			9.220	7.920	
		LWIZ	07/02/92	\$	1,3,5-Trinitrobenzene	88.72			9.220	8.180	
		LW12	07/02/92	2	2,4,6-Trinitrotolusne	98.18			1.100	1.060	
		LW12	07/02/92	S	2,4,6-Trinitrotolume	100.00			8.800	8.800	
		LW12	07/02/92	\$	2,4,6-Trinitrotoluene	101.93			8.800	8.970	
		TM15	07/02/92	\$	2,4-Dinitrotoluene	83.74			1.230	1.030	
		LW12	07/02/92	\$	2,4-Dinitrotolusne	86.38			9.840	8.500	
		FRUS	07/02/92	\$	2,4-Dinitrotoluene	87.69			9.840	8.570	
		LW12	07/02/92	\$	2-Hitrotoluone (TIC)	98.11			0.530	0.520	
		TM15	07/02/92	\$	2-Mitrotolume (TIC)	106.58			22.800	24.300	
		LW12	07/02/92	\$	2-Mitratoluane (TIC)	107.62			22.800	24.400	
		LW12	07/02/92	\$.	2-Hitrotoluone (TIC)	95.61			45.600	43.600	
		TN15	07/02/92	\$	Ni trobenzene	90.52			3.060	2.770	
		LW12	07/02/92	\$	Ni trobenzone	93.86			24.500	23.000	
		LW12	07/02/92	8	Ni trobensene	93.86			24.500	23.000	
		LW12	07/02/92	\$	Cyclenite (RDX)	94.55			1.100	1.040	
		FMIS	07/02/92	\$	Cyclenite (RDX)	97.16			8.790	8.540	
		LU12	07/02/92	\$	Cyclonite (MDX)	97.27			8.790	8.550	
	Yes	JS16	06/10/92	8	Silver	95.58			0.795	0.744	
		J816	06/10/92	8	Silver	92.47			7.970	7.370	
		J816	06/10/92	\$	Silver ·	90.85			7.900	7.250	
		J\$16	06/10/92	\$	Servitium Remailium	101.41			4.970	5.040	
		J816	06/10/92	8	Servitium Compities	94.78			49.800	47.250	
		J516	86/18/15	8	Boryilium	94.59			49.900	47.200	

Hotes for Data Flags: 1 = Results Less than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently contified, X = Analyte recovery outside of contified range but within acceptable limits

Manual C-10.

Teatle-Horsh Figure 1 SFI Standard Matrix Sample Results

طعا	Lot	Test Nethed	Analysis Date	oc Test	Chanical Home	Result (%)	Poto Flago	Dota Qualifiers	Spiked Cencen.	Receivered Conten.	Unit
ES	YGS	J\$16	06/10/92	8	Cadalya	90.16			49.800	44,900	UQE
		JS16	06/10/92	\$	Cadhiun	89.78			49.900	44.500	ucc
		J\$16	06/10/92	\$	Chronium	107.45			9.940	10.700	ues
		JE16	06/10/92	8	Chronium	92.77			99.400	92.400	URE
		J\$16	06/10/92	8	Chronium	92.18			99.800	92.000	ves
		J216	06/10/92	8	Copper	92.76			4.970	4.610	nee
		J\$16	06/10/92	8	Copper	92.77			49.800	46.200	ues
		J\$16	06/10/92	8	Copper	92.59			49.900	44.200	ueg
		J\$16	06/10/92	\$	Mickel	%.77			4.970	4.710	ues
		J\$16 ·	06/10/92	8	Michel	86,5 5			49.800	44.100	ues
		J\$16	06/10/92	\$	Nickel	89.76			49.900	44.800	ues
		J\$16	06/10/92	8	Theilium	106.66			9.940	10.600	UGG
		J\$16	06/10/92	\$	Theilium	75.46			99.400	95.300	uec
		J\$16	06/10/92	\$	Thellium	89.78			99.800	87.40 0	ues
		JE16	06/10/92	\$	Zinc	111.67			9.940	11.100	UES
		J\$16	06/10/92	8	Zinc	94.48		•	99.600	94.100	UGG
		J316	06/10/92	\$	Zinc	90.58			99.800	90.400	nee
3	YET	J\$16	06/16/92	\$	Silver	94.13			0.800	0.753	UES
		J\$16	06/16/92	8	Silver	92.81			7.990	7.360	UES
		J\$16	06/16/92	8	Silver	93.21			7.950	7.410	UN
		JE 16	06/16/92	8	Beryttfun	98.80			5.000	4.968	
		JE16	06/16/92	8	Beryttiun	95.16			47.400	47.200	
		JE16	06/16/92	8	Beryllium	95.17			49.700	47.300	1
		JE16	06/16/92	8	Codnium	94.80			5.000	4.700	UBG
		J816	96/16/92	8	Cadatus	94.32			49.600	44.800	UNG
		JE16	06/16/92	8	Codnium	91.77			49.700	45.400	UGG
		J816	06/16/92	8	Chronium	99.5 0			10.000	9.950	UE
		JE16	06/16/92	\$	Chronium	90.62			99.100	89.800	UE
		J\$16	96/16/92	\$	Chroniun	90.64			99.400	90.100	UC
		J\$16	06/16/92	\$	Copper	91.00			5.000	4.550	UC
		J216	06/16/92	\$	Copper	92.74			49.600	46.000	U
		J\$16	06/16/92	8	Copper	12.96			49.700	46.200	UÇ
		J\$16	06/16/92	8	Hickel	93.80			5.000	4.690	UQ
		J\$16	06/16/92	8	Nicket	87.70			49.600	43.500	UÜ
		J816	06/16/92	8	Nickel	88.9 5			49.700	44.200	UD
		J816	06/16/92	8	Thattium	84.20			10.000	8.420	U
		J816	06/16/92	S -	Theilium	88.90			99.100	86.100	UQ
		JE16	06/16/92	8	Theilium	87.Q2			99.480	86.500	U
		J816	06/16/92	\$	Zine	103.00			10.000	10.300	
		J\$16	06/16/92	8	Zinc	%.3			99.100	91.500	U
		JS16	06/16/92	\$	Zine	92.96			99.400	92.400	U
3	YMR	JB01	06/18/92		Hereury	129.80			0.100	0.120	
		JB01	06/18/92	8	Hernury	109.90			0.788	0.866	
		JB01	06/18/92	8	Hereiry	167.53			0.797	0.857	, na
3	THE	JB01	06/17/92		Horoury	106.00	-		0.100	8,100	_
		J001	06/17/92	•	Heroury	106.65			8.797	0.500	
		JB01	06/17/92	8	Horoury	. 96.24			0.798	0,765	i
13	YMŻ	4001	67/65/92		Reroury	139.30			0.006	6, 134	
		4001	07/06/92		Horacry	104.97			0.764	0.000) and

Notes for Boto Flags: 1 = Results land than SR. but greater than SRD, R = Analyse required for reporting purposes but not corrulatly correlated, X = Analyse receivery cutoids of correlated rows but within asseptable limits

Topele-North Phase 1 RFI Standard Matrix Sample Results

مقعري	Lot	Test Method	Analysis Date	QC Table	* *	Result	Deta	Data	Splited	Recovered	
				Test	Chemical Hene	(%)	Flags	Qualifiers	Concen.	Concen.	Unit
ES	YNZ	JB01	07/03/92	\$	Hercury	105.48			0.766	0.806	UGG
ES	YIL	8022	05/20/92	\$	Arsenic	108.00			5.000	5.400	UGL
		SD22	05/20/92	\$	Arsenic	90.93			75.800	66.200	UGL
		5022	05/20/92	\$	Arsenic	92.67			75.000	69.500	NET
ES	YIP	SD22	06/17/92	\$	Arsenic	102.00			5.000	5.100	UGL
		5022	06/17/92	\$	Arsenic	97.87			75.000	73.480	UGL
		502 2	06/17/92	\$	Arsenic	98.00			75.000	73.500	UGL
ES	YIS	SD22	07/10/92	s	Arsenic	98.00					
		SD22	07/10/92	S	Arsenic	90.25			5.000	4.900	UGL
		\$ 022	07/10/92	\$	Arsenic	90.75			80.000 80.000	72.200 72.600	UGL
ES	YIV	\$022	07/28/92	\$	Arsenic	112.00					
		5022	07/28/92	3	Arsenic	112.00			5.000	5.600	UGL
		2022	07/28/92	Š	Arsenic	96.80			75.000	72.600	UGL
			-1,-4,72	•	AT BUTTO	98.53			75.000	73.900	UGL
£\$	AIS	2022	06/21/92	\$	Arsenic	106.00			5.000	5.300	UGL
		\$022	08/21/92	\$	Arsenic	97.07			75.000	72.800	ner
		SD22	08/21/92	\$	Arsenic	99.07			75.900	74.300	UGL
	JQ	UH18	05/13/92	\$	2,4,6-Tribramaphenol	73.00			100.000	3	
		W18	05/13/92	\$	2-Fluorobiphenyl	84.00			50.000	73.000	UGL
		LW18	05/13/92	\$	2-Fluorophenol	64.00				42.000	UCL
		UN18	05/13/92	\$	Mitrobenzene-D5	68.00			100.000	64.000	UGL
		UN18	05/13/92	\$	Phenol-06	48.00			50.000 100.000	34.000	UGL
		UM18	05/13/92	\$	Terphenyl -014	110.00			50.800	48.000 55.000	UGL
ES	YJX	UN18	07/06/92	s	2,4,6-Tribromophenol	70.00					
		UK18	07/06/92	\$	2-Fluorobishenyl	74.00			100.000	70.000	UGL
		UN18	07/06/92	\$	2-Fluorophenol	57.00			50.000	37.000	UGL
		UN18	07/06/92	\$	Nitrobenzene-D5	68.00			100.000	57.000	UGL
		UM18	07/06/92	\$	Phenol-Dó	44.00			50.000	34.000	UGL
		UH18	07/ 06/9 2	\$	Terphanyl-014	90.00			100.000 50.000	44.000 45.000	UGL
ES	YLY	UH18	06/27/92	\$	2,4,4-Tribrempphenol	65.00					
			06/27/92	-	2-Fluorabiphenyl	64.00			100.000	65.000	ner
			06/27/92	\$	2-Fluoraghenol	65.00			50.000	32.000	UCL
			06/27/92	\$	Nitrobensone-05	64.00			100.000	45.800	UEL
			06/27/92	\$	Phonol-Dó	58.00			50.000	32.000	NET
			06/27/92		Terphonyl-014	%.00			100.000 50.000	58.000 47.000	ner ner
	YKU	. 019	06/05/92	•	Annania				34.000	٧٠.٠٠٠	•
•	140		06/05/92		Arsenic Arsenic	115.80			0.481	0.557	UGG
						111.30			7.700	8.570	UBG
		17	06/05/92	\$	Arsenic	104.44			7.880	8.230	UGE
*	YKV		06/16/92		Arsonie	123.97			0.443	0.574	UBS
			06/16/92		Araenic	98.81			7.560	7.470	
		.019	06/16/92	8	Areenie	102.32			7.760	7.940	UR
8			06/16/92		2,4,6-Tribrumophenol	91.04			6.700	4 444	
		LH18	06/16/92	8	2-Fluorabiphanyl	93.94			/	6.100	

Notes for Data Flage: 1 = Results less then CRL but greater than CCD, R = Analyte required for reporting purposes but not currently cortified, X = Analyte recovery outside of certified range but within acceptable limits

Principal C-16

Toosle-Horth Phase 1 SFI Standard Metrix Sample Results

Lab	Let	Test Method	Analysis Date	OC Test	Chamical Home	Resul t (%)	Deta Flags	Deta Qualifiers	tpited Cencen.	Recovered Concen.	Units
ES	YLS	LM18	06/16/92	\$	2-Flueraphenol	83.58			6.700	5.600	UGG
		LH16	06/16/92	\$	Nitrobenzene-05	84.85			3.3CC	2.800	UGG
		LIMB	06/16/92	8	Phenol -06	86.06			6.700	5.900	UGG
		LH18	06/16/92	\$	Terphenyl-014	121.21			3.300	4.000	UGG
ES	YLU	LH18	06/22/92	\$	2,4,6-Tribronophenol	76.12			6.700	5.100	UGG
		LINS	04/22/92	\$	2-Fluorabiphanyl	78.79			3.300	2.400	uce
		LH18	06/22/92	\$	2-Fluorophonol	76.12			6.700	5.100	196
		LM18	06/22/92	\$	#itrobenzene-05	72.73			3.300	2.400	nee
		LN18	06/22/92	\$	Phenol-D6	79.10			6.700	5.300	uec
		LM18	06/22/92	\$	Terphonyl-D14	106.06			3.300	3.500	UGG
5 5	YLY	LN18	06/29/92	\$	2,4,6-Tribramaphenol	77.61			6.700	5.200	UGG
		LH18	06/29/92	\$	2-Fluorobiphenyl	87.86			3.300	2.900	UGG
		LIMS	06/29/92	\$	2-Fluorophenel	76.12			6.700	5.100	ues
		LH18	06/29/92	\$	Nitrobenzene-05	75.76			3.300	2.500	UGG
		LH18	06/29/92	\$	Phenol-D6	76.12			6.700	5.100	UGG
		LH18	06/29/92	\$	Terphonyl-D14	193.63			3.300	3.400	UGG
ES	YMD	M50	05/11/92	\$	1,2-Dichtereethens-04	76.00			50.000	48.900	UGL
		M(50	05/11/92	\$	4-Branof Luorabenzana	100.00			50.000	50.000	UEL
		UM20	05/11/92	\$	Toluene-98	98.60			50.000	49.800	
ES		fat50	04/05/92	\$	1,2-91chloroethene-04	98.00			50.000	49.800	
		UN20	06/05/92	8	4-Bramof Luorobanzone	100.00			50.000	50.000	UGL
		MS0	04/05/92	\$	Toluene-98	190.80			50.000	50.000	UGL
ES	YMY	NK50	06/12/92	\$	1,2-Dichlereethere-D4	100.00			50.000	50.000	UGL
		TNISO	06/12/92	\$	4-Branofluorobonzone	102.00			50.000	51.000	UGL
		m(20	06/12/92	\$	Toluene-08	100.00			50. 00 0	50.000	UGL
ES	YMZ	MS0	06/18/92	\$	1,2-Dichtersethens-04	96.00			50.000	48.000	UGL
		UN20	06/18/92	\$	4-Bramofluorabenzene	100.00			50.000	50.000	UGL
		M(50	06/18/92	\$	Toluene-DS	100.00			50.000	50.000	UGL
ES	YOL	8810	05/18/92	\$	Berium	117.00			19.000	11.700	UGL
		\$610	05/18/92	\$	Berium	96.46			3750.000	3490.000	UGL
		2510	05/18/92	8	Berium	97.40			7500.000	7320.000	UGL
		8610	05/18/92	5	Berium	99.07			7500.000	7430.000	HOL
		\$510	65/18/92	\$	Calcium	95.00			1000.000	950.000	UEL
		5010	05/18/92	\$	Calcium	99.67			7500.000	7430.000	UOL
		9610 9610	05/18/92	.	'alcium Colcium	98.67			15000.000	14800.000	UGL
		9610	05/18/92	•	Codelus	1 00.67 91.33			15000.000	15100.000	HEL
		8810	05/18/92	•	Codmium	91.33 95.50			15.000	13.700	ner.
		5510	05/18/92	•	Codofun	73.50 75.25			4000.000	1910,000 3810,900	ACT
		3510	05/18/92	\$	Cadalus	96.50			4000.000	3010.000	UGL
		9610	05/18/12	8	Cobolt	98.40			99.600	4.20	100.
		9010	05/18/12	8	Cobolt	%.00			100,000	17657,000	UEL
		9010	05/16/92	8	Cobalt	95.00			4000.000	30000.000	
		\$210	65/18/12	8	Cebelt	97.25			40000.000	3000.000	
		9810	05/16/12	8	Chranium	115.00			10.000	11,500	
		9616	05/18/12	8	Chremius	70,30			2000.000	1970.000	

Notes for Both Flags: 1 = Results Loss than CRL but greatur than CRD, R = Analyte required for reporting purposes but not curvality cortified, X = Analyte recovery outside of certified range but within acceptable limits

APPENDIX C-18

Tocele-North Phase I RFI Standard Metrix Sample Results

	Lot	Test Nethed	Analysis Dete	QC Test	Chemical Name	Result (%)	Data Fl ags	Deta Qualifiers	Spiked Concen.	Recovered Cencen.	Uni
B	YOL	\$\$10	05/18/92	\$	Chronium	97.75			4000.000	3910.000	u
		35 10 SS10	05/18/92	\$	Chronium	97.73 99.75			4000.000	3990.000	i
		3510	05/18/92	•	Copper	106.00			20.000	21.200	
	•	2510 2510	05/18/92	5	Copper	97.25			4000.000	3890.000	
		5510	05/18/92	\$	Copper	96.50			8000.800	7720.000	
		5810	05/18/92	\$	Copper	97.50			8000.000	7800.000	
		88 10	05/18/92	5	Magnesium	103.00			1000.000	1050.000	
		\$\$10	05/18/92	\$	Regnesium	101.07			7500.000	7580.900	
		\$810	05/18/92	\$	Regnesium	180.00			15000.000	15000.000	
		\$\$10	05/18/92	S	Hagnesium	101.33			15000.000	15200.000	
		5510	05/18/92	\$	Hanganese	104.00			10.000	10.400	
		\$\$10	05/18/92	\$	Hanganese	96.93			750.000	742.000	
		\$\$10	05/18/92	\$	Kanganese	98.00			1500.000	1470.000	
		\$\$10	05/18/92	\$	Hanganese	99.33			1500.000	1490.000	
		\$\$10	05/18/92	\$	Sadium	109.00			1000.000	1090.000	
		\$\$10	05/18/92	\$	Sodium	78.00			20000.000	19600.000	
		\$\$10	05/18/92	\$	Sodium	97.00			40000.000	38800.000	
		\$\$10	05/18/92	\$	Sodium	98.00			40000.000	39200.000	
		\$\$10	05/18/92	\$.	Nickel	103.00			50.000	51.500	
		SS10	05/18/92	\$	Nickel	97.67			4000.000	5860.000	
		\$\$10	05/18/92	\$	Hickel	96.67			12000.000	11600.000	
		\$\$10	05/18/92	\$	Nickel	98.33			12000.000	11800.000	
		\$\$10	05/18/92	\$	Zinc	108.00			40.000	43.200	
		3510	05/18/92	8	Zine	95.20			7500.000	7140.000	
		\$\$10	05/18/92	\$	Zine	94.00			15000.000	14100.000	
		2210	05/18/92	\$	Zinc	96.00			15000.000	14400.000	
3	YOR	\$\$10	06/17/92	\$	Borium	102.00			10.000	10.200	
		5510	06/17/92	\$	Berium	97.60			3750.000	3660.000	
		\$\$10	06/17/92	\$	Berium	98.00			7500.000	7350.000	
		\$\$10	06/17/92	\$	Berium	99.47			7500.000	7460.000	
		\$\$10	06/17/92	\$	Calcium	101.00			1000.000	1010.000	
		8810	06/17/92	\$	Calcium	98.80			7500.000	7410.000	
		5510	06/17/92	\$	Celcium	98.67			15000.000	14800.000	
		\$\$10	06/17/92	\$	Calcium	99.33			15000.000	14900.000	
		\$\$10	06/17/92	\$	Cadnium	103.33			15.000	15.500	
		55 10	06/17/92	8	Cadaius	95.50			2000.000	1910.000	
		\$\$10	06/17/92	\$	Codinium	96.00			4000.000	3840.000	
		\$\$10	06/17/92	\$	Codnium	96.50			4000.000	3840.000	
		\$\$10	06/17/92	\$	Cobelt	101.40			50.000	50.700	
		8810	06/17/92	8	Cobelt	95.00			20000.000	19000.000	
		5510	06/17/92	\$	Cobelt	94.75			40000.000	37900.000)
		\$\$10	06/17/92	\$	Cobalt	95.50			40000.000	38200.000)
		8810	06/17/92	\$	Chremium	86.40			10.000	8.840	ì
		\$810	06/17/92	8	Chromium	96.50			2000.000	1930.000	1
		2210	06/17/92	8	Chromium	96.50			4000.000	3860.000)
		3810	06/17/92	8	Chrenium	97.25			4000.000	3090.000)
		2210	06/17/92	8	Copper	104.50			20.000	20.900)
		\$510	06/17/92	8	Copper	97.50			4000.000	3900.000)
		8810	06/17/92	8	Copper	97.86			2000.000	7830.000)
		2010	06/17/92	8	Copper	98.63					
		8810	06/17/92	8	Magnesium	162.00			3000.000 1008.000	7890.000)

Notes for Data Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently cortified, X = Analyte recovery outside of cortified range but within acceptable limits

APPROX C-10

Totale-Harth Phase I RFI Standard Matrix Sample Results

Leb Lot Netherd Bales Test			Test	Anelysis	ec		Result	Bete	Date	Spiked	Recovered	
Bill Mary Serie Mary Serie Mary Series Mary Mary Series		Let		• •		Charlest Horn						unita
\$10 06/17/92 \$ Nemperson 196.00 19.000 16.000 18.000 16.0000 16.0000 16.0000 16.0000 16.0000 16.0000 16.0000 16.0000 16.0												
SST0 Obj.177/RZ S Rempanse 106,00 10,000 10,000 10,000 10,000 10,000 10,000 140,000 145,00	ES	YOR			8	Hegnesism					14900.000	UEL
### Review						Magnesium						UGL
Section Sect		•	58 10		8	Hanganase				16.000	10.400	UBL
Serior Self-TryPe S. Margames Serior					_	Hengenese .				5-	728.000	
SST0 64/17/PK 5 Softium 195.00 1990.000 1												UEL
## 100 04/17/92 \$ Bodfum \$91.00 40980,000 39400,000 USL ## 100.000					_	-						UEL
### 10 64/17/92 \$ Sedium					_							UGL
### Section				-	_							ner
\$110 0A/17/92 \$ Hickel 95.00 608.000 \$70.00 USL 16bel 95.00 6600.000 \$70.00 USL 1810 0A/17/92 \$ Hickel 95.00 608.000 \$70.00 USL 1810 0A/17/92 \$ Zinc 105.00 120.00 1200.000 11460.000 USL 1810 0A/17/92 \$ Zinc 105.00 120.00 1200.000 11500.000 USL 1810 0A/17/92 \$ Zinc 105.00 120.00 120.00 0A/17/92 \$ Zinc 105.00 0A/17/92 \$ Z					_							
\$10 06/17/92 \$ Hickel 95.00 1200.000 1700.000 USL \$10 06/17/92 \$ Hickel 95.00 1200.000 11400.000 USL \$10 06/17/92 \$ Hickel 95.00 1200.000 11400.000 USL \$10 06/17/92 \$ Zinc 103.00 40.000 41.200 USL \$10 06/17/92 \$ Zinc 103.00 40.000 41.200 USL \$10 06/17/92 \$ Zinc 94.67 1500.000 1200.000 1200.000 USL \$10 06/17/92 \$ Zinc 94.67 1500.000 1200.000 USL \$10 06/17/92 \$ Zinc 94.67 1500.000 1200.000 USL \$10 06/17/92 \$ Zinc 94.67 1500.000 1200.000 USL \$10 06/17/92 \$ Zinc 94.67 1500.000 1200.000 USL \$10 06/17/92 \$ Zinc 94.67 1500.000 1200.000 USL \$10 06/17/92 \$ Zinc 94.67 1500.000 1200.000 USL \$10 06/17/92 \$ Zinc 94.67 1500.000 1200.000 USL \$10 06/17/92 \$ Zinc 94.67 1500.000 1200.000 USL \$10 06/17/92 \$ Zinc 94.67 1500.000 1200.000 USL \$10 06/17/92 \$ Zinc 94.67 1500.000 1200.000 USL \$10 06/17/92 \$ Zinc 94.67 1500.000 1200.000 USL \$10 06/17/92 \$ Zinc 94.67 17/92 \$ Zinc 94					-					,		
\$10 06/17/92 \$ Hickel 95.00 12000.000 1400.000 USL S110 06/17/92 \$ Zine 103.00 94.75 7300.000 1700.000 USL S110 06/17/92 \$ Zine 103.00 94.75 7300.000 1700.000 USL S110 06/17/92 \$ Zine 94.67 1900.000 16.200.000 USL S110 06/17/92 \$ Zine 94.67 1900.000 16.200.000 USL S110 06/17/92 \$ Zine 94.67 1900.000 16.200.000 USL S110 06/17/92 \$ Zine 94.67 1900.000 16.200.000 USL S110 06/17/92 \$ Zine 94.67 1900.000 16.200.000 USL S110 06/17/92 \$ Zine 94.67 1900.000 16.200.000 USL S110 06/30/92 \$ Berlum 94.67 1900.000 16.200.000 USL S110 06/30/92 \$ Berlum 97.33 3750.000 3650.000 USL S110 06/30/92 \$ Berlum 97.07 7900.000 7700.000 7700.000 7700.000 USL S110 06/30/92 \$ Calcium 97.95 7790.000 7700.000 7700.000 S110 06/30/92 \$ Calcium 90.05 1900.000 1900.000 980.000 USL S110 06/30/92 \$ Calcium 90.05 1900.000 1900.000 980.000 USL S110 06/30/92 \$ Calcium 90.05 1900.000 1900.000 980.000 USL S110 06/30/92 \$ Calcium 90.05 1900.000 1900.000 980.000 USL S110 06/30/92 \$ Calcium 90.05 1900.000 1900.000 1900.000 USL S110 06/30/92 \$ Calcium 90.33 15.000 1500.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 1500.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 1500.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 1500.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 1500.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 1500.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 USL S110 06/30/92 \$ Calcium 90.35 150.000 USL S110 06/30/92 \$ Calcium 90.300 USL S110 06/30/92 \$ Calcium 90.300 USL S110 06/30/92 \$ Calcium 90.300 USL S110 06/30/92 \$ Calcium 90.300 USL S110 06/30/92 \$ Calcium 90.300 USL S110 06/30/92 \$ Calcium 90.300 USL S110 06/30/92 \$ Calcium 90.					_					-		
SET 06/17/92 S Hickel 95.63 12000.000 11500.000 USL					-							
SETIO 64/17/PE S Zinc 103.60 40.000 41.200 US.					_							
\$170 04/17/92 \$ 2 inc					_							-
### \$10 \$4/17/92 \$ 2 inc					_							-
### 100												
### STOU \$\$10 04/30/92 \$ Barlian 108.00 10					_							-
\$10 04/30/92 \$ Borlum 97.077 7700.000 3650.000 100.000 \$100 04/30/92 \$ Borlum 97.077 7700.000 7200.000 7200.000 \$100 04/30/92 \$ Calcium 98.05 7700.000 7200.000 981.000 981.000 04/30/92 \$ Calcium 98.000 1000.000 981.0000 981.0000 981.0000 981.0000 981.000			2510	06/17/92	2	Zinc	94.67			15000.000	14200.000	UCL
\$10 04/30/92 \$ Borlum 97.077 7700.000 3650.000 100.000 \$100 04/30/92 \$ Borlum 97.077 7700.000 7200.000 7200.000 \$100 04/30/92 \$ Calcium 98.05 7700.000 7200.000 981.000 981.000 04/30/92 \$ Calcium 98.000 1000.000 981.0000 981.0000 981.0000 981.0000 981.000	FR	WEI	2210	04/30/92	•	Recium	108.00			10 000	10.800	1969
SST0 04/38/PE S Serium 97.67 7500.000 7289.000 7289.000 8510 04/38/PE S Galetium 98.00 1000.000 98.000 UE. SETO 04/38/PE S Caletium 102.40 7500.000 7439.800 UE. SETO 04/38/PE S Caletium 102.40 7500.000 7439.800 UE. SETO 04/38/PE S Caletium 101.33 15000.000 15700.000 UE. SETO 04/38/PE S Cadelium 89.33 15.000 15700.000 UE. SETO 04/38/PE S Cadelium 89.33 15.000 15700.000 UE. SETO 04/38/PE S Cadelium 93.50 2000.000 15700.000 UE. SETO 04/38/PE S Cadelium 93.50 4000.000 3790.000 UE. SETO 04/38/PE S Cadelium 93.50 4000.000 3790.000 UE. SETO 04/38/PE S Cadelium 95.75 4000.000 3790.000 UE. SETO 04/38/PE S Cadelium 95.75 4000.000 3790.000 UE. SETO 04/38/PE S Cadelium 95.75 4000.000 3790.000 UE. SETO 04/38/PE S Cadelium 95.75 4000.000 3790.000 UE. SETO 04/38/PE S Cadelium 96.75 4000.000 3790.000 UE. SETO 04/38/PE S Cadelium 96.75 40000.000 3790.000 UE. SETO 04/38/PE S Cadelium 96.75 40000.000 3790.000 UE. SETO 04/38/PE S Cadelium 96.75 40000.000 3790.000 UE. SETO 04/38/PE S Cadelium 96.75 40000.000 3790.000 UE. SETO 04/38/PE S Cadelium 96.75 40000.000 3790.000 UE. SETO 04/38/PE S Cadelium 96.75 40000.000 3790.000 UE. SETO 04/38/PE S Cadelium 96.75 40000.000 3790.000 UE. SETO 04/38/PE S Cadelium 96.75 40000.000 3790.000 UE. SETO 04/38/PE S Cadelium 96.75 40000.000 3790.000 UE. SETO 04/38/PE S Cadelium 96.75 40000.000 3790.000 UE. SETO 04/38/PE S Cadelium 96.75 40000.000 3790.000 UE. SETO 04/38/PE S Cadelium 96.75 40000.000 3790.000 UE. SETO 04/38/PE S Cadelium 97.33 7300.000 7300.000 UE. SETO 04/38/PE S Cadelium 97.33 7300.000 7300.000 UE. SETO 04/38/PE S Cade												_
SETIO 04/30/92 S Calcium 90.95 7380.000 7420.000 7												
### Sett												
STIO 04/39/72 Calcium 102,40 7500,000 7600,000 US.					-							
### \$210 04/38/92 \$ Calefum \$10.00 15080.000 15200.000 USL \$210 04/38/92 \$ Calefum \$101.33 15000.000 15200.000 USL \$210 04/38/92 \$ Cadmium \$101.33 15.000 313.400 USL \$210 04/38/92 \$ Cadmium \$1.50 200.000 1170.000 USL \$210 04/38/92 \$ Cadmium \$1.50 4000.000 3700.000 USL \$210 04/38/92 \$ Cadmium \$1.50 4000.000 3700.000 USL \$210 04/38/92 \$ Cadmium \$1.50 4000.000 3700.000 USL \$210 04/38/92 \$ Cadmium \$1.50 4000.000 3700.000 USL \$210 04/38/92 \$ Cadmium \$1.40 50.00 2000.000 1800.000 USL \$210 04/38/92 \$ Cadmium \$1.40 50.00 2000.000 1800.000 USL \$210 04/38/92 \$ Cadmium \$1.40 \$1.50 4000.000 3700.000 USL \$210 04/38/92 \$ Cadmium \$1.40 \$1.50 4000.000 3700.000 USL \$210 04/38/92 \$ Cadmium \$1.40 \$1.50 4000.000 3700.000 USL \$210 04/38/92 \$ Cadmium \$1.40 \$1.50 4000.000 3700.000 USL \$210 04/38/92 \$ Cadmium \$1.40 \$1.50 4000.000 3700.000 USL \$210 04/38/92 \$ Cadmium \$1.40 \$1.50 4000.000 3700.000 USL \$210 04/38/92 \$ Cadmium \$1.40 \$1.50 4000.000 3700.000 USL \$210 04/38/92 \$ Cadmium \$1.40 \$1.50 \$10.000 \$10.000 \$10.000 USL \$210 04/38/92 \$ Cadmium \$1.40 \$1.50 \$10.000 \$10.000 \$10.000 USL \$210 04/38/92 \$ Cadmium \$1.40 \$1.50 \$10.000 \$10.000 \$10.000 USL \$210 04/38/92 \$ Cadmium \$1.50 \$1.50 \$1.50 \$10.000 USL \$210 04/38/92 \$ Cadmium \$1.50 \$					_							
\$\$10 06/30/92 \$ Cabrium 101,33 15000.000 15200.000 UEL \$\$10 06/30/92 \$ Cabrium 92,33 15,000 1570.000 UEL \$\$10 06/30/92 \$ Cabrium 93,50 2000.000 1570.000 UEL \$\$10 06/30/92 \$ Cabrium 93,50 4000.000 3770.000 UEL \$\$10 06/30/92 \$ Cabrium 95,50 4000.000 3770.000 UEL \$\$10 06/30/92 \$ Cabrium 95,73 4000.000 3770.000 UEL \$\$10 06/30/92 \$ Cabrium 95,73 4000.000 3770.000 UEL \$\$10 06/30/92 \$ Cabrium 95,73 4000.000 3770.000 UEL \$\$10 06/30/92 \$ Cabrium 95,73 4000.000 3790.000 UEL \$\$10 06/30/92 \$ Cabrium 94,73 40000.000 37900.000 UEL \$\$10 06/30/92 \$ Cabrium 94,73 40000.000 37900.000 UEL \$\$10 06/30/92 \$ Cabrium 94,73 40000.000 37900.000 UEL \$\$10 06/30/92 \$ Cabrium 114,80 10,000 11,400 UEL \$\$10 06/30/92 \$ Chromium 114,80 10,000 11,400 UEL \$\$10 06/30/92 \$ Chromium 94,30 2000.000 1350.000 UEL \$\$10 06/30/92 \$ Chromium 94,30 2000.000 3700.000 UEL \$\$10 06/30/92 \$ Chromium 94,30 2000.000 3700.000 UEL \$\$10 06/30/92 \$ Chromium 94,30 2000.000 3700.000 UEL \$\$10 06/30/92 \$ Caprium 94,30 4000.000 3700.000 UEL \$\$10 06/30/92 \$ Caprium 96,30 4000.000 3700.000 UEL \$\$10 06/30/92 \$ Caprium 96,30 4000.000 3700.000 UEL \$\$10 06/30/92 \$ Caprium 96,30 4000.000 3700.000 UEL \$\$10 06/30/92 \$ Caprium 96,30 4000.000 3700.000 UEL \$\$10 06/30/92 \$ Caprium 96,30 4000.000 3700.000 UEL \$\$10 06/30/92 \$ Caprium 96,30 4000.000 3700.000 UEL \$\$10 06/30/92 \$ Caprium 96,30 4000.000 3700.000 UEL \$\$10 06/30/92 \$ Caprium 96,30 4000.000 3700.000 UEL \$\$10 06/30/92 \$ Caprium 96,30 4000.000 3700.000 UEL \$\$10 06/30/92 \$ Caprium 97,33 7500.000 7700.000 UEL \$\$10 06/30/92 \$ Raymontum 97,33 7500.000 7700.000 UEL \$\$10 06/30/92 \$ Raymontum 97,33 7500.000 7700.000 UEL \$\$10 06/30/92 \$ Raymontum 97,33 7500.000 7700.000 UEL \$\$10 06/30/92 \$ Raymontum 97,33 7500.000 7700.000 UEL \$\$10 06/30/92 \$ Raymontum 97,33 7500.000 7700.000 UEL \$\$10 06/30/92 \$ Raymontum 97,33 7500.000 7700.000 UEL \$\$10 06/30/92 \$ Raymontum 97,33 7500.000 7700.000 UEL \$\$10 06/30/92 \$ Raymontum 97,33 7500.000 7700.000 UEL \$\$10 06/30/92 \$ Raymontum 97,33 7500.000 7700.000 UEL \$\$10 06/30/92 \$ Raymontum 97,33 7500.000 7700.					_							
\$\$10 06/30/92 \$ Cadmium 99.33 15.000 1570.000 UEL \$\$10 06/30/92 \$ Cadmium 93.50 2000.000 1570.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 4000.000 3780.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 4000.000 3780.000 UEL \$\$10 06/30/92 \$ Cadmium 95.75 4000.000 35830.000 UEL \$\$10 06/30/92 \$ Cadmium 97.75 4000.000 35830.000 UEL \$\$10 06/30/92 \$ Cadmium 97.75 4000.000 35830.000 UEL \$\$10 06/30/92 \$ Cadmium 94.75 94.00 2000.000 35800.000 UEL \$\$10 06/30/92 \$ Cadmium 94.75 40000.000 37800.000 UEL \$\$10 06/30/92 \$ Cadmium 94.75 40000.000 37800.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 40000.000 37800.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 40000.000 37800.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 38600.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 38700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 38700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 38700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 38700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 38700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 38700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 38700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.50 2000.000 37700.000 UEL \$\$10 06/30/92 \$ Cadmium 94.5					-							
\$10 06/30/92 \$ Cadmium 93.50 2000.000 1870.000 USL \$10 06/30/92 \$ Cadmium 94.50 4000.000 3780.000 USL \$10 06/30/92 \$ Cadmium 95.55 4000.000 3830.000 USL \$10 06/30/92 \$ Cadmium 95.75 4000.000 3830.000 USL \$10 06/30/92 \$ Cadmium 95.75 4000.000 3830.000 USL \$10 06/30/92 \$ Cadmium 95.75 4000.000 1800.000 USL \$10 06/30/92 \$ Cadmium 96.00 2000.000 1800.000 USL \$10 06/30/92 \$ Cadmium 94.00 2000.000 37900.000 USL \$10 06/30/92 \$ Cadmium 94.75 4000.000 37900.000 USL \$10 06/30/92 \$ Cadmium 96.90 4000.000 38460.000 USL \$10 06/30/92 \$ Chrumium 96.90 2000.000 1930.000 USL \$10 06/30/92 \$ Chrumium 96.75 4000.000 3879.000 USL \$10 06/30/92 \$ Chrumium 96.75 4000.000 3879.000 USL \$10 06/30/92 \$ Chrumium 98.25 4000.000 3879.000 USL \$10 06/30/92 \$ Capper 95.50 20.000 19.100 USL \$10 06/30/92 \$ Capper 96.00 4000.000 3790.000 USL \$10 06/30/92 \$ Capper 96.00 4000.000 3790.000 USL \$10 06/30/92 \$ Capper 96.00 4000.000 3790.000 USL \$10 06/30/92 \$ Capper 96.00 4000.000 3790.000 USL \$10 06/30/92 \$ Capper 96.00 4000.000 3790.000 USL \$10 06/30/92 \$ Capper 96.00 4000.000 3790.000 USL \$10 06/30/92 \$ Capper 96.00 4000.000 3790.000 USL \$10 06/30/92 \$ Capper 96.00 1900.000 USL \$10 06/30/92 \$ Capper 96.00 1900.000 USL \$10 06/30/92 \$ Capper 96.00 1900.000 USL \$10 06/30/92 \$ Capper 96.00 1900.000 USL \$10 06/30/92 \$ Capper 96.00 1900.000 USL \$10 06/30/92 \$ Capper 96.00 1900.000 USL \$10 06/30/92 \$ Capper 96.00 1900.000 USL \$10 06/30/92 \$ Capper 96.00 1900.000 USL \$10 06/30/92 \$ Capper 90.00 1900.000 USL \$10 06/30/92 \$ Capper 90.00 1900.000 USL \$10 06/30/92 \$ Capper 90.00 1900.000 USL \$10 06/30/92 \$ Capper 90.00 1900.000 USL \$10 06/30/92 \$ Capper 90.00 1900.000 USL \$10 06/30/92 \$ Capper 90.00 1900.000 USL \$10 06/30/92 \$ Capper 90.00 1900.000 USL \$10 06/30/92 \$ Capper 90.00 1900.000 USL \$10 06/30/92 \$ Capper 90.00 1900.000 USL \$10 06/30/92 \$ Capper 90.00 1900.000 USL \$10 06/30/92 \$ Capper 90.00 1900.000 USL \$10 06/30/92 \$ Capper 90.00 1900.000 USL \$10 06/30/92 \$ Capper 90.000 1900.000 USL \$10 06/30/92 \$ Capper 90.000 1900.000 USL \$10 06/30/92 \$ Capper 90					_							
\$210 06/30/72 \$ Cadmium 94.50 4000.000 3700.000 US. \$210 06/30/72 \$ Cadmium 95.75 4000.000 3830.000 US. \$210 06/30/72 \$ Cadmium 95.75 4000.000 3830.000 US. \$210 06/30/72 \$ Cadmium 95.75 4000.000 3830.000 US. \$210 06/30/72 \$ Cadmium 94.00 28000.000 18000.000 US. \$210 06/30/72 \$ Cadmium 94.75 40000.000 37700.000 US. \$210 06/30/72 \$ Cadmium 94.75 40000.000 37700.000 US. \$210 06/30/72 \$ Cadmium 94.50 40000.000 36400.000 US. \$210 06/30/72 \$ Cadmium 94.50 2000.000 38400.000 US. \$210 06/30/72 \$ Cadmium 94.50 2000.000 38700.000 US. \$210 06/30/72 \$ Cadmium 94.50 2000.000 38700.000 US. \$210 06/30/72 \$ Cadmium 94.75 4000.000 38700.000 US. \$210 06/30/72 \$ Cadmium 94.75 4000.000 38700.000 US. \$210 06/30/72 \$ Cadmium 94.75 4000.000 38700.000 US. \$210 06/30/72 \$ Cadmium 95.75 20.000 19.100 US. \$210 06/30/72 \$ Cadmium 94.25 20.000 19.100 US. \$210 06/30/72 \$ Cadmium 94.25 20.000 19.100 US. \$210 06/30/72 \$ Cadmium 94.25 20.000 19.100 US. \$210 06/30/72 \$ Cadmium 94.25 20.000 19.100 US. \$210 06/30/72 \$ Cadmium 94.25 20.000 19.100 US. \$210 06/30/72 \$ Cadmium 94.25 20.000 19.100 US. \$210 06/30/72 \$ Cadmium 94.20 1000.000 100. \$210 06/30/72 \$ Regressium 94.20 1000.000 100. \$210 06/30/72 \$ Regressium 94.20 1000.000 100. \$210 06/30/72 \$ Regressium 94.20 1000.000 100. \$210 06/30/72 \$ Regressium 94.20 1000.000 100. \$210 06/30/72 \$ Regressium 94.20 1000.000 100. \$210 06/30/72 \$ Regressium 94.20 1000.000 100. \$210 06/30/72 \$ Regressium 94.20 1000.000 100. \$210 06/30/72 \$ Regressium 94.20 1000.000 100. \$210 06/30/72 \$ Regressium 94.20 1000.000 10												
\$\$10 06/30/92 \$ Cabalt 91.40 \$0.000 \$339.000 US. \$\$10 06/30/92 \$ Cabalt 91.40 \$0.000 \$3890.000 US. \$\$10 06/30/92 \$ Cabalt 94.00 \$2000.000 18800.000 US. \$\$10 06/30/92 \$ Cabalt 94.75 40000.000 \$7900.000 US. \$\$10 06/30/92 \$ Cabalt 94.75 40000.000 \$7900.000 US. \$\$10 06/30/92 \$ Cabalt 96.50 40000.000 \$3800.000 US. \$\$10 06/30/92 \$ Chromium 114.00 10.000 11.400 US. \$\$10 06/30/92 \$ Chromium 96.50 \$200.000 1950.000 US. \$\$10 06/30/92 \$ Chromium 96.57 4000.000 \$3590.000 US. \$\$10 06/30/92 \$ Chromium 96.75 4000.000 \$3590.000 US. \$\$10 06/30/92 \$ Coppor 95.50 \$20.000 19.100 US. \$\$10 06/30/92 \$ Coppor 95.50 \$20.000 19.100 US. \$\$10 06/30/92 \$ Coppor 96.00 4000.000 \$300.000 US. \$\$10 06/30/92 \$ Coppor 96.00 4000.000 \$300.000 US. \$\$10 06/30/92 \$ Coppor 96.00 4000.000 \$300.000 US. \$\$10 06/30/92 \$ Coppor 96.00 4000.000 \$300.000 US. \$\$10 06/30/92 \$ Coppor 96.00 4000.000 \$300.000 US. \$\$10 06/30/92 \$ Coppor 96.00 4000.000 \$300.000 US. \$\$10 06/30/92 \$ Coppor 96.00 4000.000 \$300.000 US. \$\$10 06/30/92 \$ Coppor 96.00 4000.000 \$300.000 US. \$\$10 06/30/92 \$ Regnesium 94.20 1000.000 US. \$\$10 06/30/92 \$ Regnesium 94.20 1000.000 US. \$\$10 06/30/92 \$ Regnesium 97.33 7500.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US. \$\$10 06/30/92 \$ Regnesium 96.00 15000.000 US.					_							
\$210 04/30/92 \$ Cobelt 91.40 50.000 45.700 USL 8210 04/30/92 \$ Cobelt 94.00 28000.000 18000.000 USL 8210 04/30/92 \$ Cobelt 94.00 40.75 40000.000 37900.000 USL 8210 04/30/92 \$ Cobelt 94.75 40000.000 37900.000 USL 8210 04/30/92 \$ Cobelt 96.50 40000.000 38600.000 USL 8210 04/30/92 \$ Chromium 114.00 10.000 119.000 USL 8210 04/30/92 \$ Chromium 94.50 2000.000 1930.000 USL 8210 04/30/92 \$ Chromium 96.55 4000.000 3870.000 USL 8210 04/30/92 \$ Chromium 96.25 4000.000 3870.000 USL 8210 04/30/92 \$ Copper 95.50 20.000 3900.000 USL 8210 04/30/92 \$ Copper 96.00 4000.000 3700.000 USL 8210 04/30/92 \$ Copper 96.00 4000.000 3800.000 7700.000 USL 8210 04/30/92 \$ Copper 96.00 4000.000 3000.000 USL 8210 04/30/92 \$ Copper 96.00 4000.000 3000.000 USL 8210 04/30/92 \$ Copper 96.00 4000.000 3000.000 USL 8210 04/30/92 \$ Copper 96.00 4000.000 3000.000 USL 8210 04/30/92 \$ Copper 96.00 4000.000 3000.000 USL 8210 04/30/92 \$ Copper 96.00 10.000 10.000 USL 8210 04/30/92 \$ Copper 96.00 10.000 10.000 USL 8210 04/30/92 \$ Regnesium 96.00 10.000 10.000 10.000 USL 8210 04/30/92 \$ Regnesium 96.00 10.000 10.000 10.000 USL 8210 04/30/92 \$ Regnesium 96.00 10.000 10.000 10.000 10.000 USL 8210 04/30/92 \$ Regnesium 96.00 10.0000 10.000 10.000 10.000 10.0000 10.0000 10.0000 10.0000 10.0000 10.000			\$\$10		8	Cadaius			•			
### ### ##############################			2210		\$	Cobolt						
\$210 06/30/92 \$ Cobalt 94.75 4000.000 37900.000 UCL 9510 06/30/92 \$ Cobalt 94.50 4000.000 38660.000 UCL 9510 06/30/92 \$ Chromium 114.00 104.000 104.000 114.400 UCL 9210 06/30/92 \$ Chromium 94.50 2000.000 1950.000 UCL 9210 06/30/92 \$ Chromium 94.50 2000.000 3870.000 UCL 9210 06/30/92 \$ Chromium 94.55 4000.000 3870.000 UCL 9210 06/30/92 \$ Chromium 94.25 4000.000 3870.000 UCL 9210 06/30/92 \$ Copper 95.30 20.000 19.100 UCL 9210 06/30/92 \$ Copper 95.30 20.000 19.100 UCL 9210 06/30/92 \$ Copper 94.00 4000.000 3800.000 7700.000 UCL 9210 06/30/92 \$ Copper 94.25 8000.000 7700.000 UCL 9210 06/30/92 \$ Copper 94.25 8000.000 7700.000 UCL 9210 06/30/92 \$ Copper 94.20 94.20 1000.000 942.000 UCL 9210 06/30/92 \$ Regnesium 94.20 1000.000 942.000 UCL 9210 06/30/92 \$ Regnesium 94.20 1000.000 14400.000 UCL 9210 06/30/92 \$ Regnesium 97.33 7300.000 14400.000 UCL 9210 06/30/92 \$ Regnesium 96.00 15000.000 14400.000 UCL 9210 06/30/92 \$ Regnesium 97.33 7300.000 14400.000 UCL 9210 06/30/92 \$ Regnesium 96.00 15000.000 14400.000 UCL 9210 06/30/92 \$ Regnesium 97.33 7300.000 14400.000 UCL 9210 06/30/92 \$ Regnesium 97.33 7300.000 74400.000 UCL 9210 06/30/92 \$ Regnesium 97.33 7300.000 14000.000 UCL 9210 06/30/92 \$ Regnesium 97.33 15000.000 14000.000 UCL 9210 06/30/92 \$ Regnesium 97.33 15000.000 14000.000 UCL 9210 06/30/92 \$ Regnesium 97.33 15000.000 14000.000 UCL 9210 06/30/92 \$ Regnesium 97.33 15000.000 14000.000 UCL 9210 06/30/92 \$ Regnesium 97.33 15000.000 14000.000 UCL 9210 06/30/92 \$ Regnesium 97.33 15000.000 14000.000 UCL 9210 06/30/92 \$ Regnesium 97.33 15000.000 14000.000 UCL 9210 06/30/92 \$ Regnesium 97.33 15000.000 14000.000 UCL 9210 06/30/92 \$ Regnesium 97.33 15000.000 14000.000 UCL 9210 06/30/92 \$ Regnesium 97.33 15000.000 14000.000 UCL 9210 06/30/92 \$ Regnesium 97.33 15000.000 14000.000 UCL 9210 06/30/92 \$ Regnesium 97.33 15000.000 14000.000 UCL 9210000 06/30/92 \$ Regnesium 97.33 15000.000 14000.000 UCL 92100000 06/30/92 \$ Regnesium 97.33 15000.000 14000.000 UCL 9210000000 06/30/92 \$ Regnesium 97.33 15000000 06/30/92 \$ Regnesium 97.0		-		04/30/92	8	Cobelt						
\$510 06/30/92 \$ Chromium 114.00 10.000 38460.000 USL 5510 06/30/92 \$ Chromium 114.00 104.00 10.000 11.400 USL 5510 06/30/92 \$ Chromium 94.50 2000.000 1550.000 USL 5510 06/30/92 \$ Chromium 94.50 2000.000 3570.000 USL 5510 06/30/92 \$ Chromium 94.25 4000.000 3570.000 USL 5510 06/30/92 \$ Capper 95.50 20.000 19.100 USL 5510 06/30/92 \$ Capper 96.00 4000.000 3046.000 USL 5510 06/30/92 \$ Capper 94.25 8000.000 7700.000 USL 5510 06/30/92 \$ Capper 94.25 8000.000 7700.000 USL 5510 06/30/92 \$ Capper 94.25 8000.000 7700.000 USL 5510 06/30/92 \$ Capper 94.25 8000.000 7700.000 USL 5510 06/30/92 \$ Regnesium 94.20 1000.000 942.000 USL 5510 06/30/92 \$ Regnesium 97.33 7500.000 7500.000 USL 5510 06/30/92 \$ Regnesium 97.33 7500.000 1500.000 USL 5510 06/30/92 \$ Regnesium 97.33 7500.000 1500.000 USL 5510 06/30/92 \$ Regnesium 97.33 7500.000 1500.000 USL 5510 06/30/92 \$ Regnesium 97.33 7500.000 1500.000 USL 5510 06/30/92 \$ Regnesium 97.33 7500.000 1500.000 USL 5510 06/30/92 \$ Regnesium 97.33 7500.000 USL 5510 06/30/92 \$ Regnesium 97.33 7500.000 14400.000 USL 5510 06/30/92 \$ Regnesium 97.33 7500.000 14400.000 USL 5510 06/30/92 \$ Regnesium 97.33 1500.000 14400.000 USL 5510 06/30/92 \$ Regnesium 97.33 1500.000 14000.000 USL 5510 06/30/92 \$ Regnesium 97.33 1500.000 14000.000 USL 5510 06/30/92 \$ Regnesium 97.33 1500.000 14000.000 USL 5510 06/30/92 \$ Regnesium 97.33 1500.000 14000.000 USL 5510 06/30/92 \$ Regnesium 97.33 1500.000 14000.000 USL 5510 06/30/92 \$ Regnesium 97.33 1500.000 14000.000 USL 5510 06/30/92 \$ Regnesium 97.33 1500.000 14000.000 USL 5510 06/30/92 \$ Regnesium 97.33 1500.000 14000.000 USL 5510 06/30/92 \$ Regnesium 97.33 1500.000 14000.000 USL 5510 06/30/92 \$ Regnesium 97.33 1500.000 14000.000 USL 5510 06/30/92 \$ Regnesium 97.33 1500.000 14000.000 USL 5510 06/30/92 \$ Regnesium 97.33 1500.000 14000.000 USL 5510 06/30/92 \$ Regnesium 97.33 1500.000 14000.000 14000.000 USL 5510 06/30/92 \$ Regnesium 97.33 1500.000 14000.000 14000.000 14000.000 14000.000 14000.000 14000.000 14000.000 14000.000 14000.000 14000.000 14000.000 14000.000 14			9810	04/30/92	\$	Cobelt						
\$\$10 04/30/92 \$ Chremium 114.00 10.000 11.400 USL \$\$10 04/30/92 \$ Chremium 94.50 2000.000 1950.000 USL \$\$10 04/30/92 \$ Chremium 96.75 4000.000 3670.000 USL \$\$10 04/30/92 \$ Chremium 96.75 4000.000 3670.000 USL \$\$10 04/30/92 \$ Capper 95.50 20.000 19.100 USL \$\$10 04/30/92 \$ Capper 95.50 20.000 19.100 USL \$\$10 04/30/92 \$ Capper 96.00 4000.000 7700.000 USL \$\$10 04/30/92 \$ Capper 96.00 4000.000 7700.000 USL \$\$10 04/30/92 \$ Capper 96.00 8000.000 7700.000 USL \$\$10 04/30/92 \$ Capper 96.00 8000.000 7700.000 USL \$\$10 04/30/92 \$ Regnesium 94.20 1000.000 942.000 USL \$\$10 04/30/92 \$ Regnesium 94.20 1000.000 942.000 USL \$\$10 04/30/92 \$ Regnesium 97.33 7300.000 USL \$\$10 04/30/92 \$ Regnesium 97.33 7300.000 USL \$\$10 04/30/92 \$ Regnesium 96.00 15000.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 96.00 15000.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 96.00 15000.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 96.00 15000.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 96.00 15000.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 96.00 15000.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 96.00 15000.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 96.00 15000.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 96.00 15000.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 96.00 15000.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 96.00 15000.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 96.00 15000.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 97.33 1500.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 97.33 1500.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 97.33 1500.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 97.33 1500.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 97.33 1500.000 14400.000 USL \$\$10 04/30/92 \$ Regnesium 97.33 1500.000 1400.000 USL \$\$10 04/30/92 \$ Regnesium 97.33 1500.000 1400.000 USL \$\$10 04/30/92 \$ Regnesium 97.33 1500.000 1400.000 USL \$\$10 04/30/92 \$ Regnesium 97.33 1500.000 1400.000 USL \$\$10 04/30/92 \$ Regnesium 97.33 1500.000 1400.000 USL \$\$10 04/30/92 \$ Regnesium 97.33 1500.000 1400.000 USL \$\$10 04/30/92 \$ Regnesium 97.33 1500.000 1400.000 USL \$\$10 04/30/92 \$ Re			8810	06/30/92	8	Cobalt						
SETIO 06/30/92 S Chromium 96.50 2000.000 1950.000 UEL SETIO 06/30/92 S Chromium 96.75 4000.000 3270.000 UEL 3270.000 UEL 3270.000 UEL 3270.000 UEL 3270.000 UEL 3270.000 UEL 3270.000 UEL 3270.000 UEL 3270.000 UEL 3270.000 UEL 3270.000 UEL 3270.000 UEL 3270.000 UEL 3270.000 UEL 3270.000 UEL 3270 06/30/92 S Coppor 96.00 4000.000 7700.000 UEL 3270 06/30/92 S Coppor 96.00 4000.000 7700.000 UEL 3270 06/30/92 S Regnesium 96.00 1000.000 96.			5810	06/30/98	8	Chremium	114.80					
\$210 06/30/92 \$ Chromium 96.75 4000.000 3270.000 USL 9510 06/30/92 \$ Chromium 96.25 4000.000 3750.000 USL 9510 06/30/92 \$ Capper 95.50 20.000 19.100 USL 9510 06/30/92 \$ Capper 96.00 46.00 4000.000 3046.000 USL 9510 06/30/92 \$ Capper 96.00 96.25 8000.000 7700.000 USL 9510 06/30/92 \$ Capper 96.00 8000.000 7046.000 USL 9510 06/30/92 \$ Regressium 96.20 1000.000 962.000 USL 9510 06/30/92 \$ Regressium 96.20 1000.000 962.000 USL 9510 06/30/92 \$ Regressium 97.33 7500.000 T300.000 USL 9510 06/30/92 \$ Regressium 96.00 15000.000 14400.000 USL 9510 06/30/92 \$ Regressium 96.00 15000.000 14400.000 USL 9510 06/30/92 \$ Regressium 96.00 15000.000 14400.000 USL 9510 06/30/92 \$ Regressium 96.00 15000.000 14700.000 USL 9510 06/30/92 \$ Regressium 96.00 15000.000 14700.000 USL 9510 06/30/92 \$ Regressium 96.00 15000.000 14700.000 USL 9510 06/30/92 \$ Regressium 96.00 15000.000 14700.000 USL 9510 06/30/92 \$ Regressium 97.33 1500.000 14700.000 USL 9510 06/30/92 \$ Regressium 97.33 1500.000 14700.000 USL 9510 06/30/92 \$ Regressium 97.33 1500.000 14700.000 USL 9510 06/30/92 \$ Regressium 97.33 1500.000 14700.000 USL 9510 06/30/92 \$ Regressium 97.33 1500.000 14700.000 USL 9510 06/30/92 \$ Regressium 97.33 1500.000 14700.000 USL 9510 06/30/92 \$ Regressium 97.33 1500.000 14700.000 USL 9510 06/30/92 \$ Regressium 97.33 1500.000 14700.000 USL 9510 06/30/92 \$ Regressium 97.33 1500.000 14700.000 USL 9510 06/30/92 \$ Regressium 97.33 1500.000 14700.000 USL 9510 06/30/92 \$ Regressium 97.33 1500.000 14700.000 USL 9510 06/30/92 \$ Regressium 97.33 1500.000 14700.000 USL 9510 06/30/92 \$ Regressium 97.33 1500.000 14700.000 USL 9510 06/30/92 \$ Regressium 97.33 1500.000 14700.000 USL 9510 06/30/92 \$ Sedium 97.30 19.000 19.000 1000.000 USL 9510 06/30/92 \$ Sedium 97.30 19.000 19.000 1000.000 USL 9510 06/30/92 \$ Sedium 97.30 19.000 19.000 1000.000 USL 9510 06/30/92 \$ Sedium 97.30 19.000 1000.000 1000.000 1000.000 1000.000 1000.000 10000.000 10000.000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000			9610	06/30/92	\$	Chronium	94.50					
\$610 06/30/92 \$ Capper 95.50 20.000 19.100 UGL 9610 06/30/92 \$ Capper 95.50 20.000 19.100 UGL 9610 06/30/92 \$ Capper 96.00 4600.000 3040.000 UGL 9610 06/30/92 \$ Capper 94.25 8600.000 7700.000 UGL 9610 06/30/92 \$ Capper 94.25 8600.000 7700.000 UGL 9610 06/30/92 \$ Capper 94.20 94.20 1000.000 942.000 UGL 9610 06/30/92 \$ Magnesium 94.20 1000.000 942.000 UGL 9610 06/30/92 \$ Magnesium 97.33 7300.000 7300.000 UGL 9610 06/30/92 \$ Magnesium 97.33 7300.000 7300.000 UGL 9610 06/30/92 \$ Magnesium 96.00 1900.000 14400.000 UGL 9610 06/30/92 \$ Magnesium 96.00 1900.000 14700.000 UGL 9610 06/30/92 \$ Magnesium 96.00 1900.000 14700.000 UGL 9610 06/30/92 \$ Magnesium 96.00 1900.000 14700.000 UGL 9610 06/30/92 \$ Magnesium 96.00 1900.000 14700.000 UGL 9610 06/30/92 \$ Magnesium 97.33 1900.000 14700.000 UGL 9610 06/30/92 \$ Magnesium 97.33 1900.000 14700.000 UGL 9610 06/30/92 \$ Magnesium 97.30 1900.000 14700.000 UGL 97.30 1900.000 14700.000 UGL 97.30 UGL 97.30 1900.000 14700.000 UGL 97.3			5810	06/30/92	8	- Chronius	%.7 5			4000.000		UGL
\$810 04/30/92 \$ Capper 95.50 20.000 19.100 UGL \$810 04/30/92 \$ Capper 96.00 4000.000 3040.000 UGL \$810 04/30/92 \$ Capper 96.00 \$0.25 8000.000 7700.000 UGL \$810 04/30/92 \$ Capper 90.00 8000.000 7040.000 UGL \$810 04/30/92 \$ Regnesium 94.20 1000.000 942.000 UGL \$810 04/30/92 \$ Regnesium 97.33 7300.000 7300.000 UGL \$810 04/30/92 \$ Regnesium 97.33 7300.000 7300.000 UGL \$810 04/30/92 \$ Regnesium 96.00 15000.000 14400.000 UGL \$810 04/30/92 \$ Regnesium 96.00 15000.000 14700.000 UGL \$810 04/30/92 \$ Regnesium 96.00 15000.000 14700.000 UGL \$810 04/30/92 \$ Regnesium 96.00 15000.000 14700.000 UGL \$810 04/30/92 \$ Regnesium 96.00 15000.000 14700.000 UGL \$810 04/30/92 \$ Regnesium 97.10 10.000 7.000 714.000 UGL \$810 04/30/92 \$ Regnesium 97.10 10.000 7.000 714.000 UGL \$810 04/30/92 \$ Regnesium 97.10 10.000 7.000 TAL.000 UGL \$810 04/30/92 \$ Regnesium 97.10 10.000 7.000 TAL.000 UGL \$810 04/30/92 \$ Regnesium 97.10 10.000 7.000 TAL.000 UGL \$810 04/30/92 \$ Regnesium 97.10 UGL \$97.000 7.000 TAL.000 UGL \$810 04/30/92 \$ Regnesium 97.10 UGL \$97.30 TAL.000 UGL \$97.000 TAL.000 UGL \$97.000 TAL.000 UGL \$97.000 TAL.000 UGL \$97.000 TAL.000 UGL \$97.000 TAL.000 UGL \$97.000 TAL.000 UGL \$97.30 UGL \$97.000 TAL.000 UGL \$97.30 UGL \$97.000 TAL.000 UGL \$97.30 UGL \$97.30 UGL \$97.30 UGL \$97.30 UGL \$97.000 TAL.000 UGL \$97.30 UGL \$97			8610	06/30/92		Chronium	%.25				3730.000	UEL
8610 06/30/92 \$ Copper 96.25 800.000 7700.000 USL 8810 06/30/92 \$ Copper 90.00 800.000 7840.000 USL 8810 06/30/92 \$ Regrestum 94.20 1000.000 942.000 USL 8810 06/30/92 \$ Regrestum 97.33 7300.000 7300.000 USL 8810 06/30/92 \$ Regrestum 96.00 15000.000 14400.000 USL 8810 06/30/92 \$ Regrestum 96.00 15000.000 14400.000 USL 8810 06/30/92 \$ Regrestum 96.00 15000.000 14700.000 USL 8810 06/30/92 \$ Regrestum 96.00 79.00 79.000 714.000 USL 8810 06/30/92 \$ Regrestum 96.00 79.00 79.000 714.000 USL 8810 06/30/92 \$ Regresse 97.10 10.000 7.000 714.000 USL 8810 06/30/92 \$ Regresse 97.33 1900.000 1430.000 USL 8810 06/30/92 \$ Regresse 97.33 1900.000 1430.000 USL 8810 06/30/92 \$ Regresse 97.33 1900.000 1430.000 USL 8810 06/30/92 \$ Regresse 97.33 1900.000 1430.000 USL 8810 06/30/92 \$ Regresse 97.33 1900.000 14400.0			3810	06/30/92	8	Copper	95.50			20.000	19.100	
\$810 06/30/92 \$ Regrestum 94.20 \$000,000 942.000 USL \$810 06/30/92 \$ Regrestum 94.20 \$000,000 942.000 USL \$810 06/30/92 \$ Regrestum 97.33 7500,000 7300,000 USL \$810 06/30/92 \$ Regrestum 96.00 15000,000 14400,000 USL \$810 06/30/92 \$ Regrestum 96.00 15000,000 14400,000 USL \$810 06/30/92 \$ Regrestum 96.00 15000,000 14700,000 USL \$810 06/30/92 \$ Regrestum 96.00 79.10 10.000 9.910 USL \$810 06/30/92 \$ Regrestem 97.10 10.000 714.000 USL \$810 06/30/92 \$ Regrestem 95.20 7700,000 714.000 USL \$810 06/30/92 \$ Regrestem 95.20 7700,000 714.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 1430.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 1430.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 1440.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 1440.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 1440.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 1440.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 1440.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 1440.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 1440.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 1440.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 1440.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 1440.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 1440.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 1440.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 14400.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 14400.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 14400.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 14400.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 14400.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 14400.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 14400.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 14400.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 14400.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 14400.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 14400.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 14400.000 USL \$810 06/30/92 \$ Regrestem 97.33 1900.000 14400.000 USL \$810 06/30/92 \$ Regrestem 97.33 190			8818	04/30/92	2	Copper	96.00			4000.000	3040.000	UGL.
### ### ### ### ######################			9610	06/30/92	8	Copper	%.25			2000.000	7790.000	UGL
\$210 06/30/92 \$ Regrestum 97.33 7500.000 7300.000 US. \$210 06/30/92 \$ Regrestum 96.00 15000.000 14400.000 US. \$210 06/30/92 \$ Regrestum 90.00 15000.000 14700.000 US. \$210 06/30/92 \$ Regrestum 90.00 15000.000 14700.000 US. \$210 06/30/92 \$ Regrestem 97.10 10.000 7.000 7.000 T. \$210 06/30/92 \$ Regrestem 95.20 7500.000 7.0000 T. \$210 06/30/92 \$ Regrestem 95.20 7500.000 T. \$210 06/30/92 \$ Regrestem 97.33 1500.000 1430.000 US. \$210 06/30/92 \$ Regrestem 97.33 1500.000 T. \$210 06/30/92 \$ Regrestem 97.33 1500.000 T.			2510	06/30/92	\$	Copper	76.00			8000.000	7840.000	UGL
\$210 06/20/92 2 Hagnesium 96.00 15001.000 14400.000 USL \$210 06/20/92 2 Hagnesium 90.00 15001.000 14700.000 USL \$210 06/20/92 2 Hargenose 99.10 16.00 9.910 USL \$210 06/20/92 2 Hargenose 95.20 750.000 714.000 USL \$210 06/20/92 2 Hargenose 95.20 750.000 714.000 USL \$210 06/20/92 2 Hargenose 95.23 1500.000 1430.000 \$210 06/20/92 3 Hargenose 97.33 1500.000 1440.000 \$210 06/20/92 3 Sedium 99.50 1000.000 990.000			2010	96/39/92	8	Magnesium	94.20			1000,000	942.000	UEL
8610 84/36/92 \$ Regres ium 98.00 15000.000 14700.000 150, 8610 84/36/92 \$ Rergenete 99.10 10.000 9.910 US, 8610 84/36/92 \$ Rergenete 95.20 750.000 714.000 US, 8610 84/36/92 \$ Rergenete 95.20 750.000 1420.000 US, 8610 84/36/92 \$ Rergenete 95.23 1500.000 1420.000 S616 84/36/92 \$ Rergenete 97.33 1500.000 1420.000 S610 84/36/92 \$ Sedium 99.000 1000.000 999.000			8810		8	Hagnesium	97.33			7300.000		UCL
\$610 \$6/\$8/\$2 \$ Harganese 99.10 10.600 9.910 LBS. \$610 \$6/\$8/\$2 \$ Harganese 95.20 750.000 714.000 LBS. \$610 \$6/\$8/\$2 \$ Harganese 95.23 1500.000 1430.000 \$610 \$6/\$8/\$2 \$ Harganese 97.35 1500.000 1430.000 \$610 \$6/\$8/\$2 \$ Marganese 97.35 1500.000 1440.000 \$610 \$6/\$8/\$2 \$ Marganese 97.30 1500.000 990.000					8	Magnes fun				15000.000	14400.000	URL
95.20 94/30/92 8 Harganese 95.20 790.000 714.000 101. 9510 94/30/92 8 Harganese 95.33 1500.000 1430.000 9510 94/30/92 8 Harganese 97.33 1500.000 1440.000 9510 94/30/92 8 Sedium 99.00 1000.000 999.04					-	Magnas ium	*			19000.000	14700.000	UOL
95.35 1900.000 1420.000 97.35 1900.000 1420.000 97.36 04/20/70 5 Hungamase 97.36 1900.000 1460.000 97.90 04/20/70 5 Sedium 97.90 1000.000 977.40										10,000	9.910	URL
97.33 1900.000 1440.000 9710 84/30/92 3 Sedium 97.90 1000.000 977.33					-							HOL
99.00 96/50/12 8 Sedium 99.00 1000.000 1000.000					-							
					-							•
											999.00	

Hotes for Bots Flags: 1 = Results lake then CRL but greater than CCD, R = Analyte required for reporting purposes but not ourranticortified, X = Analyte recovery outside of cortified range but within asseptable limits



Tocele-Horth Phase ! RFI Standard Matrix Sample Results

		Test	Analysis	ec .	Charles Harry	Result	Deta	Dete	Splited	Recevered	•
	Let	Hethod	Date	Test	Chamical Name	(%)	flags	Qualifiers	Concen.	Conson.	Uni
3	YOU	5510	06/30/92	8	Sodium	97.80			40000.000	30000.000	UE
		5510	06/30/92	8	Sedium	98.50			40000.000	39400.000	U
		5610	06/30/92	\$	Hickel	93.20			50.000	46.600	U
		8810	06/30/92	\$	Hickel	95.13			4000.000	5400.000	U
		3810	06/30/92	8	Hickel	94.17			12000.000	11300.000	U
		\$510	06/30/92	\$	Hickel	95.00			12000.000	11400.000	U
		33 10	06/30/92	\$	Zine	97.50			40.888	39.000	U
		\$\$10	06/30/92	8	Zinc	92.27			7500.000	6920.990	ŧ
		\$510	06/30/92	\$	Zinc	92.67			15000.000	13900.000	¥
		5310	06/30/92	\$	Zinc	94.67			15000.000	14200.000	ŧ
	YOU	2510	07/10/92	8	Serium	128.00			19.000	12.000	U
		\$\$10	07/18/92	\$	Berium	97.33			3750.000	3650.000	U
		\$210	07/10/92	\$	Serium.	98.13			7500.000	7360.000	U
		\$\$10	07/10/92	\$	Serium	98.80			7500.000	7410.900	ı
		5510	07/10/92	S	Colcium	105.00			1000.000	1050.000	
		2210	07/10/92	\$	Calcium	96.27			7500.000	7370.000	į
		5510	07/10/92	\$	Calcium	100.67			15000.000	15100.000	i
		\$\$10	07/10/92	\$	Coleium	102.47			15000.000	15400,000	ì
		8810	07/10/92	\$	Cadnium	94.67			15.000	14.200	i
		2210	07/10/92	5	Codinium	95.00			2000.000	1900.000	ì
-		\$\$10	07/10/92	8	Cadaiun	98.50			4000.000	3940.000	i
		\$810	07/10/92	S	Cadinium	98.75			4000,000	3750.000	ì
		\$210	07/10/92	\$	Cabelt	101.40			50.000	50.800	,
		\$\$10	07/10/92	\$	Cobolt	96.50			20000.000	19300.000	į
		\$310	07/10/92	•	Cobelt	97.50			40000.000	39000.000	Ì
		2510	07/10/92	2	Cobelt	98.25			40000.000	37300.000	i
		5510	07/10/92	s	Chronium	114.00			10.000	11.400	ì
		2210	07/10/92	Š	Chronium	99.00			2000.000	1980.000	ì
		SS10	07/10/92	Š	Chronium	99.75			4000.000	3990.000	i
		3510	07/10/92	Š	Chronius	100.50			4000.000	4020.000	i
		\$\$10	07/10/92	Š	Copper	78.00			20.000	19.400	,
		SS10	07/10/92	Š	Copper	99.00					,
		SS10	07/10/92	•	Copper	100.75			4000.000	3760.000	
			07/10/92	\$	* -				8000.000	8060.000	1
		SS10		•	Copper	101.13			8000.800	8070.800	(
		\$\$10	07/10/92	\$	Magnedium	14.00			1000.000	700.000	(
		\$610	07/10/92	3	Regnes fum	98.93			7900.000	7420.000	
		8810	- •	-	Magnes ium	100.47			15000.000	15100.000	(
		\$510	07/10/92	8	Regnesium	101.33			15000.000	15200.000	(
		\$\$10	07/10/92	8	Hergensee	97.30			10.000	7.730	,
		\$\$10	07/10/92	\$	Nanganose	97.40			750.000	732.000	1
		\$\$10	07/10/92	8	Hanganase	98.67			1500.000	1480.000	-
		5510	07/10/92	8	Nanganose andios	99.33			1500,000	1490.000	
		8810	07/10/92	8	Sedium	105.00			1000.000	1050.000	
		8810	07/10/92	8	Sedium	100.00			20000.000	20000.000	1
		3610	07/10/92	8	Sedium	101.25			40000.000	40500.000	(
		9610	07/10/92	8	Sedium	102.00			40000,000	40000.000	
		8810	07/10/92	8	Hickel	16.66			99.000	48.300	
		2010	07/10/92	8	Hichel	97.00			4000.000	2000.000	
		2010	07/10/92	8	Hickel	76.33			12000.000	11000.000	
		9510	07/10/92	8	Highel	99.17			12000.000	11700.000)
		8610	67/10/92	8	Zine	106.25			40.000	42.500)

Notes for Seta Flags: 1 = Results less than CRL but greater than CSS, R = Analyte required for reporting purposes but not currently contified, X = Analyte recovery outside of contified range but within acceptable limits

Brance & M.

Tospie-Marth Phase 1 AFI Standard Matrix Sample Results



•	Let	Test Nothed	Analysis Date	Test	Chamical State	Result (X)	Data Flags	Deta Qualifiers	Spiked Conson.	Concern.	Unit
_	YOU	2210	07/10/92		Zinc	97.33			15000,000	14400.000	UEL
		9610	07/10/92	8	Zins	97.33			19000.000	14600.000	UEL
8	YPR	LH10	07/65/92		elpho-Endoculfon / Endoculfon I	90.00			0.000	9.018	UDG
		LIME	07/05/92	8	Aldrin	40.00			0.620	0.000	UC
		LH10	07/65/92	8	beco-Endoavifon / Endoavifon 11	75.00			0.020	0.819	UN
		LHIO	07/05/92	8	Dieldrin	95.00			0.620	0.019	U
		LH10	67/65/92	8	Endrin	165.80		•	0.020	0.021	U
		LH10	07/ 45/ 92	\$	Huptachler	95.00			0.020	0.019	U
		LH10	07/05/92	\$	leadrin	80.00			0.030	0.624	U
		LH10	07/65/92	8	Lindano / gamma-Bansanahaxachioride	85.80			0.020	8.017	U
		LH10	07/05/92	8	Hethesychier	126.50	X		0.200	0.253	UE
		LH10	07/ 05/92	\$	p,p-60T	130.00			0.620	0.026	
3	YPS	LH10	07/05/92	\$	elphe-Endosulfen / Endosulfen I	100.00			0.020	0.020	UD
		LN10	07/05/92	\$	Aldrin	100.00			0.020	0.000	U
		LH10	07/05/92	\$	beca-Endoculfon / Endoculfon 11	100.00			0.020	0.030	U
		LH10	07/05/92	8	Dieldrin	165.00			0.000	0.021	u
		LN10	07/05/92	8	Endrin	45.86			0.030	5 .007	u
		LN10	07/05/92	8	Haptachler	165.00			0.620	0.621	U
		LH10	07/95/92	•	landrin	100.00			0.650	0.650	
		LH10	07/45/92	8	Lindane / game-Bansanahenechteride	100.00			0.020	0.000	
		LH10	07/65/92	8	Methenyekter	100.50			0.300	0.201	-
		LH10	07/45/92	8	p,p-107	110.00			0.620	0.632	ᄖ
}	TPT	LH10	07/01/92	\$	elphe-Endocution / Endocution I	80.00			0.020	0.016	U
		LH10	07/46/92	8	eighe-Endoculfon / Endoculfon I	75.00			0.030	0.819	
		LH10	07/01/92	8	Aldrin	85.00			0.020	0.017	
		LH10	07/06/92	\$	Aldrin	75.00			0.020	0.019	
		LH10	07/01/92	\$	bete-Endoutfon / Endoutfon II	45.40 100.60			0. 020 0. 020	9.917 9.820	
		LN10	07/98/92	8	beta-Endoulfan / Endoulfan II Dieldrin				0.020	0.020	-
		LN10	07/01/52	\$		90.60 95.60			0.020	0.019	
		LINE	07/00/70	\$	Dieldrin	80.60			0.626	0.019	
		LHTO	07/01/92	8	Endrin Endrin	99.60			0.420	0.018	
		LH10	07/00/00	\$ \$	Restachtor	99.60			6.600	0.018	
		LR18 LIMB	07/41/12 07/41/12	\$	Hestochlor	100.00			0.000	0.020	
		LIITO	07/01/92	•	Igadrin	78.67			0.630	0.023	
		LINE	07/92/92	•	Igadrin	90.00			0.450	0.627	_
		TILIO	07/01/02	•	Lindone / game-Benstnahensehleride	8.00			0.630	0.816	-
		LINE	67/06/92	_	Lindane / game-Bensenshansshieride	71.00			0.620	0.018	
		LU16	07/01/00		Hethenyehler	84.00			0.200	9.146	-
		LINE	07/04/92		Metherputter	95.00			0.200	0.190	
		LINE	07/01/92		p.p-607	77.00			0.000	0.010	-
		LH10	67/46/1R		p.p-007	165.00			0.620	0.621	
,	194	99	67/16/TE	8	eighe-Bridseul fen / Ondsaul fen 1	-199.00			0.500	9,000	
	÷	99	67/14/18		Aldrin	-999.00			1.00	0.007	-
		99	W/14/12		bote-Endocutifen / Endocutifen II	-999.00			0.030	0.007	
		99	67/16/TE		Dieldrin	-997.00			1.60	9,000	
		99	67/16/72		Ondrin	-999.88			0.000	9,007	
		77	07/14/92		Regtachler	-999.00			0.000	9,00	
		99	97/14/TR	_	Jestrin	-917.00			0.00		

Notes for Bata Flags: 1 - Results less than CRL but greater than CRD, it - Analyte required for reporting purposes but not currently cortified, X - Analyte recovery outside of cortified range but within acceptable limits

Topole-North Phase I RFI Standard Matrix Sample Results

Ė	Let	Test Methed	Analysis Date	Test	Chamical Name	Beault (%)	Data Flags	Deta Qualifiers	Spiked Concen.	Recovered Concen.	Unit
3	YPU	99	07/16/92	\$	Lindane / gaste-Bensenshakachteride .	-999.00			0.020	0.006	UGG
		99	07/16/92	\$	Nethenychlor	-999.00			0.200	0.071	UG
		99	07/16/92	\$	p,p-80T	-999.00			0.020	0.007	UG
;	YPZ	LN10	07/27/92	\$	alpha-Endoculfan / Endoculfan I	20.00			0.020	0.004	UG
		LH10	07/26/92	8	eighe-Endosulfan / Endosulfan I	95.00			0.020	0.019	UG
		LH10	07/26/92	\$	alpha-Endosulfan / Endosulfan I	100.00			0.020	0.020	U
		LH10	07/26/92	\$	Aldrin	90.00			0.620	0.018	UC
		LN10	07/26/92	\$	Aldrin	95.00			0.020	0.019	U
		LN10	07/27/92	\$	Aldrin	100.00			0.020	0.020	U
		LN10	07/26/92	\$	beta-Endosulfan / Endosulfan II	85.00			0.020	0.017	UC
		L#10	07/26/92	\$	beta-Endosulfan / Endosulfan II	95.00			0.020	0.019	UE
		LN10	07/27/92	\$	beta-Endosulfan / Endosulfan II	95.00			0.020	0.019	UE
		LH10	07/26/92	\$	Dieldrin	100.00			0.020	0.020	U
		LH10	07/26/92	\$	Dieldrin	105.00			0.020	0.021	u
		LN10	07/26/92	\$	Endrin	95.00			0.020	0.019	U
		LH10	07/26/92	\$	Endrin	105.00			0.020	0.021	u
		LH10	07/27/92	8	Heptachlor	85.00			0.020	0.017	U
		LH10	07/26/92	\$	Neptachior	90.00			0.020	0.018	U
		LH10	07/26/92	8	Neptachi or	95.00			0.020	0.019	u
		LH10	07/27/92	\$	Isodrin	43.33			0.030	0.019	Ų
		LN10	07/26/92	\$	Isedrin	83.33			0.030	0.025	U
		LH10	07/26/92	8	Isedrin	86.67			0.030	0.026	Ü
		LH10	07/26/92	3	Lindone / gamma-Benzonehexachteride	85.00			0.020	0.017	U
		LH10	07/26/92	\$	Lindone / gamma-Benzonehexachloride	90.00			0.020	0.018	U
		LH10	07/27/92	\$	Lindane / gemme-Benzenehexachtoride	120.00			0.020	0.024	U
		LII10	07/26/92	\$	Methoxychior	100.50			0.200	0.201	U
		LK10	07/26/92	\$	Methoxychior	111.50			0.200	0.223	u
		LN10	07/26/92	\$	p,p-00T	115.00			0.020	0.023	U
		LH10	07/27/92	\$	p,p-00T	125.00			0.020	0.025	U
		LH10	07/26/92	\$	p,p-90T	165.00			0.020	0.033	U
	YQL	JD15	06/16/92	\$	Setenium	101.56			0.577	0.586	u
		JD15	06/16/92	\$	Selenium	90.58			7.220	6.540	U
		JD15	06/16/92	\$	Selenium	86.36			7.390	6.530	U
	YON	J D15	06/15/92	8	Selenium	116.55		•	0.556	0.648	u
		JD 15	06/15/92	8	Selenium	101.97			7.090	7.230	u
		JD 15	06/15/92	8	Selanium	101.10			7.270	7.350	Ü
	Yet	JD15	07/11/92	8	Selenium	107.86			0.496	0.535	u
		JD 15	07/11/92	\$	Selenium	95.38			7.790	7.430	
		JO15	07/11/92	\$	Selanium	93.43			7.940	7.450	U
	YQU	J 015	07/15/92	\$	Selenium	89.98			0.489	0.440	U
		. 015	07/15/92	8	Selenium	94.67			7.510	7.110	u
		JD 15	07/15/92	8	Setenium	96.97			7.790	7.710	U
	TOV	. 015	67/14/92	\$	Selonium	115.95			0.496	0.575	U
		JD 15	07/14/92	8	Setentus	96.62			7.430	7.530	_
		.015	07/14/92	8	Setenius	95.19			7.700	7.330	

Notes for Date Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently cortified, X = Analyte recovery outside of cortified range but within acceptable limits



Tosolo-Mirsh Physic I SFI Standard Histrix Sample Assults



Lab	Lot	Test Nethed	Analysis Date	OC Test	. Chamical Name	Result (%)	Peto Flags	Data Qualifiers	Spiked Concen.	Receivered Concen.	Unit
		70.00	42 44 483								
ES	YOU	.015 .015	07/14/92	\$ \$	Selanium Selanium	13.61			7.700	4.900	UGG
		4 13	U// 14/7E	•		90.95			7.836	7.120	USG
ES	YOZ	JD 15	07/16/92	8	Setonium	107.89			0.449	0.506	106
		JD 15	07/16/92	8	Selanium	70.89			7.790	7.000	uge
		J015	07/16/92	\$	Selenium	101.02			7.840	7.920	100
ES	YRJ	UN13	05/20/92	\$	alpha-Endoculfan / Endoculfan I	76.00			0.500	0.480	UGL
		UN13	05/20/92	\$	Aldrin	71.40			0.500	0.357	UGL
		UN13	05/20/92	8	beta-Endobulfan / Endobulfan II	92.40			0.500	0.462	UGL
		UN13	05/20/92	\$	Dieldrin	96.80			0.500	0.484	UGL
		W13	05/20/92	\$	Endrin	91.40			0.500	0.457	UGL
		UH13	05/20/92	\$	Heptachier	81.00			0.500	0.405	UGL
		UN13	05/20/92	\$	Isodrin	74.00			1.000	0.740	UGL
		UN13	05/20/92	\$	Lindane / genma-Benzenshexachtoride	76.20			0.500	0.381	UGL
		UN13	05/20/92	\$	Methanychlor	114.00			1,000	1,140	UGL
		UN13	05/20/92	\$	p,p-80T	92.40			0.500	0.443	UGL
ES	YRP	UN13	07/01/92	8	alabe-Endoculfon / Endoculfon 1	70.00			0.500	0.494	UGL
40	100	un13	07/01/92	•	Aldrin	70.80			0.500	0.350	
		UH13	07/01/92	•	bete-Endosulfen / Endosulfen II	27.80					UGL.
		UN13	07/81/92	•	Dieldrin				0.500	0.449	Tital.
		unis unis	07/01/92	•	Endrin	96.00			0.500	0.470	
		UN13	07/01/92	\$	Hestachier	98.40			0.500	0.492	
		UN 13	07/01/92	\$	Isedrin	81.20			0.500	0.404	
		UN13	07/01/92	•		72.90			1.000	0.729	USL
				-	Lindone / game-Benzonskexachteride	90.00			0.500	0.450	UGL
		UN13 UN13	07/01/92 07/01/92	\$	Methanychlor p.p-807	102.00 102.80			1.000 0.500	1.020 0.514	UGL
										•	
ES	YRU	UN13	07/31/92	8	alphe-Endopulfan / Endopulfan I	106.20			0.500	0.531	UGL
		UN 13	07/31/92	\$	Aldrin	70.20			0.500	0.351	UGL
		UN13	07/31/92	\$	beta-Endoaulfan / Endoaulfan II	96.40			0.500	0.482	UGL
		U#13	07/31/92	8	Dieldrin	104.80			0.500	0.524	UGL
		UN13	07/31/92	8	Endrin	105.20			0.300	0.526	UCL
		UN13	07/31/92	\$	Heptachior	43.20			0.500	0.416	UCL
		UN 13	07/31/92	\$	leadrin	75.00			1.000	0.750	UEL
		UN13	07/31/92	\$	Lindone / game-Bantanaherachteride	76.60			0.500	0.493	UGL
		UN13	07/31/92	8	Methenychier	99.90			1.000	0.999	UCL
		UN13	07/31/92	8	p.p-80T	97.20			0.500	0.496	UEL
ES	YEN	LH19	06/96/92	8	1,2-Dichleresthene-94	96.00			0.050	0.048	U06
		LI119	06/06/92	8	4-gramef Lucrabanzone	180.00			0.050	0.050	
		LH19	06/06/92	\$	Toluene-06	76.60			0.050	0.049	
es	YEN	LINTS	06/11/92		1,2-Dishioreethene-84	72.00					
		LHIP	06/11/92	•	4-Brassf (språbergene	90.88			0.650	0.044	
		LHTP	06/11/72	•	Toluene-96	70.00			0.650	0.045 0.045	UBS
			**								
8	787	LINT	06/22/72	\$	1,2-91ahlereethane-84	106.00			0.050	0.653	
		LITTO	W/22/72	8	4-Branef Lucrobanache	104.00			0.000	9.052	
		LHIP	04/22/FR	8	Tolumo-06	100.00			1.690	9.054	<u>خ</u>
8	YSV	LINY	W/25/92	2	1,2-Dichlerecthene-Di						

Notes for Bota Flags: 1 - Results less than CRL but greater than CED, R - Analyte required for reporting purposes but not ourrently contified, X - Analyte recovery outside of contified range but within acceptable limits

Toosle-North Phase I RFI Standard Metrix Sample Results

	Lot	Test Nethed	Analysis Date	QC Test	Chamical Name	Result (%)	Data Fl ags	Deta Qualifiers	Spiked Concen.	Recovered Concen.	Unit
	YSV	LN19	06/23/92	8	4-Brosof (uprobentene	90.00			0.050	0.045	UGG
		LH19	06/23/92	\$	Toluene-86	92.00	•		0.050	0.046	UGG
8	YSU	LN19	06/23/92	\$	1,2-Dichloroethane-04	98.00			0.050	0.049	UGG
		LH19	06/23/92	\$	4-Bramof Lucrobenzone	100.00			0.050	0.050	UGG
		LH19	06/23/92	\$	Toluene-08	100.00			0.050	0.050	UGG
5	YSX	LH19	06/24/92	\$	1,2-Dichloroethane-D4	96.00			0.950	0.048	UGI
		LH19	06/24/92	S	4-Bramof Luorobenzene	104.00			0.050	0.052	UG
		LM19	06/24/92	S	Toluene-08	100.00			0.050	0.050	UG
5	YSY	LM19	06/24/92	s	1,2-Dichloroethane-D4	100.00			0.050	0.050	UG
		LH19	06/24/92	\$	4-Bramofluorobenzene	102.00			0.050	0.051	UG
		LM19	06/54/95	S	Toluene-08	98.00			0.050	0.049	UG
5	YSZ	LM19	06/25/92	s	1,2-Dichloroethane-D4	98.00			0.050	0.049	UG
		LN19	06/25/92	\$	4-Bromefiuorobenzene	100.00			0.050	0.050	UG
		LM19	06/25/92	8	Totuene-08	102.00			0.050	0.051	UG
B	YVE	58 01	05/19/92	\$	Hercury	102.00			0.500	0.510	UG
		8801	05/19/92	\$	Hercury	95.40			2.500	2.390	UG
		5801	05/19/92	\$	Hercury	96.80			2.500	. 2.420	UG
•	TVJ	5801	06/17/92	\$	Hercury	105.60			0.500	0.528	ŲĢ
		58 01	06/17/92	\$	Hercury	84.00			2.500	2.100	UG
		SB 01	06/17/92	\$	Hercury	94.00			2.500	2.350	UG
8	YVH	58 01	07/07/92	\$	Nercury	98.60			0.500	0.493	UG
		58 01	07/07/92	S	Hercury	100.40			2.500	2.510	UG
		58 01	07/07/92	\$	Hercury	101.20			2.500	2.530	UC
6	YVP	3801	07/15/92	S	Hercury	99.20			0.500	0.496	UX
		58 01	07/15/92	\$	Mercury	94.40			2.500	2.360	UC
		\$801	07/15/92	8	Hercury	96.80			2.500	2.420	u
3	YVT	58 01	07/31/92	\$	Hercury	111.20			0.500	0.556	U
		5801	07/31/92	\$	Hercury	106.00			2.500	2.650	U
		590 1	07/31/92	\$	Hercury	108.80			2.500	2.720	U
3	YVX	5801	06/05/92	\$	Hercury	99.40			0.500	0.497	u
		5801	08/05/92	\$	Hercury	102.40			2.500	2.560	
		5801	08/05/92	\$	Hercury	105.60			2.500	2.640	U
3	YXE	UA/32	05/27/92	8	1,3,5-Trinitrobenzene	43.40			0.912	0.580	
		UNGZ	05/27/92	\$	1,3,5-Trinitrobeneane	67.54			9.120	6.160	
		M25	05/27/92	8	1,3,5-Trinitrobenzane	70.18			9.120	6.400	_
		UASZ	05/27/92	\$	1,3,5-Trinitrobenzene	87.55			47.400	41.500	
		UA52	05/27/92	\$ \$	2,4,6-Trinitrotoluene	85.12 44.70			1.210	1.030	
		UAS2 UAS2	05/27/92 05/27/92	•	2,4,6-Trinitrotoluone 2,4,6-Trinitrotoluone	46.78 71.49			12.100	8.000	
		UAS2	05/27/92	•	2,4,6-Trinitrotolume	84.70			12.100 86.900	8.480 75.300	
		mgs	05/27/92	•	2,4-9initrotolusne	77.39			0.115	73.300 0.000	
		UAS2	05/27/92	i	2.4-Dinitrotelune	78.00			1.190	0.897	

Notes for Data Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently cortified, X = Analyte resevery outside of certified range but within acceptable limits

Teacle-Horth Misso I RF1 Standard Matrix Sample Results

æb.	Lot	Test Method	Analysis Date	ec Test	Chemical Name	Result (%)	Data Flags	Data Qualifiers	Spiked Concen.	Resevered Concen.	Uni
3	YXE	UAS2	05/27/42	\$	2,4-Dinitrotolume	63.63			1.150	0.964	UG
		ULG2	05/27/92	8	2,4-Dinitrotelume	81.82			17.400	14.400	UG
		UNSS	05/27/92	8	2-Hitrotoluone (TIC)	90.37			97.600	86,200	UG
		ULS2	05/27/92	8	Hitrobensene	75.92			1.200	0.911	UGI
		UAS2	05/27/92	8	Ni trebenzane	77.50			12.000	9.300	UGI
		MES	05/27/92	\$	Hitrobansone	84.17			12.000	10.100	UG
		WSS	05/27/92	8	Ni trobenzene	80.30			100.000	80.300	UG
		WSZ	05/27/92	. \$	Cyclenite (RDX)	74.18			2.440	1.810	UG
		UNSS	05/27/92	\$	Cyclonite (RDX)	81.97			24.400	20.000	UG
		NQ5	05/27/92	\$	Cyclenite (RDX)	84.84			24.400	20.700	UG
		ULS2	05/27/92	\$	Cyclenite (RDX)	86.14			93.800	80.800	UG
\$	YXK	UA/52	06/23/92	\$	1,3,5-Trinitrobensene	79.39			0.912	0.724	UG
		ULS2	06/23/92	\$	1,3,5-Trinitrobenzene	77.63			9.120	7.083	UG
		UNS2	06/23/92	\$	1,3,5-Trinitrobenzone	79.82			9.120	7.260	UC
		UN32	06/23/92	\$	1,3,5-Trinitrobanzane	82.49			47.400	39.100	UG
		UAS2	04/23/92	\$	2,4,6-Trinitreteluse	86.78			1.210	1.050	UG
		UKS2	04/23/92	8	2,4,6-Trinitrotolume	76.69			12.100	9.280	U
		UAG2	04/23/92	8	2,4,6-Trinitrotoluene	78.18			12.100	9.460	U
		UAS2 UAS2	04/23/92	\$	2,4,6-Trinitrotoluone	74.24 77.39			88.900	66.000	U
		UNS2	06/23/92	\$ \$	2,4-Dinitroteluene				0.115	0.009	U
		ULG2	04/23/92	•	2.4-Dinitrotelume	87.83 90.43			1.150 1.150	1.010 1.040	
		UNSZ	04/23/92	•	2.4-Dinitrotolusne	84.09			17.400	14.800	•
		ULGZ	04/23/92	•	2-Hitrotoluene (TIC)	64.89			0.674	0.432	U
		UAGZ	04/23/92	•	2-Hitrotoluene (TIC)	78.49			6.740	5.290	U
		ULSZ	04/23/92	\$	2-Hitrotoluene (TIC)	81.45			6.740	5.490	u
		UA/52	04/23/92	•	2-Hitrotolume (TIC)	85.35			101.000	86.200	u
		UA/52	04/23/92	\$	3.4-Dinitrotoluene	-999.00			4.940	0.500	Ü
		UAG2	06/23/92	\$	Mitrobenzene	77.75	•		1.200	0.933	U
		UMSZ	06/23/92	\$	Nitrobenzene	75.00			12.000	9.000	Ū
		UNSZ	04/23/92	\$	Hitrobenzene	76.58			12.000	9,190	Ū
		ULG2	06/23/92	\$	Hitrobenzone	78.20			100,000	78.200	U
		UAS2	06/23/92	8	Cyclenite (RDX)	86.48			2.440	2.110	_
		UNG2	06/23/92	\$	Cyclenite (RDX)	83.61			24.400	20.400	U
		ULS2	06/25/92	8	Cyclenite (REX)	86.48			24.400	21.100	_
		ULG2	04/23/92	\$	Cyclenite (ASX)	87.10			93.800	81.700	U
	Y201	NZS	04/29/92	8	1,3,5-Trinitrobenzene	8.8			0.912	0.765	U
		WSS	04/29/92	8	1,3,5-Trinitrebensore	75.77			9.120	4.910	U
		UMS2	04/29/92	8	1,3,5-Trinitrobaneone	80.92			9.120	7.380	U
		UN32	06/29/92	\$	1,3,5-Trinitrebenzene	84.60			47.400	40.100	
		MQ5	06/29/92	\$	2,4,6-Trinitrotelusne	110.74			1.210	1.340	
		UAG2	04/29/92	8	2,4,6-Trinitrotelume	81.07			12.100	7.810	
		UL62	04/29/92	8	2,4,6-Trinitrotolume	84.30			12.100	10.260	
		UAS2	04/29/92	\$	2,4,6-Trinitrotolume	78.52			86.900	67.800	_
		mgs	04/29/92	8	2,4-9 ini tretelusne	91.30			0.115	0.105	
		WGS	04/29/92	8.	2,4-bini tretoluene	94.78			1.190	1.090	
		UMEZ .	04/29/92	8	2,4-9 ini treteluene	100.00			1.190	1.150	
		negs regs	94/29/92		2,4-Binitrataluana 2-Hitrataluana (TIC)	86.95 109.79			17.600	15.300	
		reds reds	06/29/92	*	2-Witrotolume (TIC)	100.77 43.32			0.474	0.740	
			AN 43/15	*		63.55			6.748	5.420	

Hotes for Both Flags: 1 = Results Less than CRL but greater than CRD, R = Analyte required for reporting purposes but not currently cortified, X = Analyte recovery outside of certified range but within acceptable limits

Topele-North Phase I RFI Standard Matrix Sample Results

, Y	Lot	Hethod	Date	Test	Chamical Name	(%)	Flags	Qualifiers	Cencen.	Concen.	Unit
, .	7304	UAG2	06/29/92	8	Z-Hitrotolume (TIC)	93.56			101.000	94.500	UGL
		UNZS	06/29/92	\$	Witrobensone	87.50			1.200	1.050	UGL
		UN32	06/29/92	`\$	Ni trebanzene	76.50			12.000	9.180	UGI
		UNIS2	06/29/92	\$	Hitrobenzene	83.33			12.000	10.000	UG
		UM32	06/29/92	\$	Ni trobenzene	8 3,40			100.000	83.400	UG
		ULGZ	06/29/92	\$	Cyclonite (RDX)	85.66			2.440	2.090	UG
		UL62	06/29/92	5	Cyclonite (RDX)	83.20			24.400	20.300	UG
		UNSS	06/29/92	\$	Cyclanite (RDX)	86.89			24.480	21.200	UG
		UM32	06/29/92	\$	Cyclonite (RDX)	88.49			93.800	83.000	UG
. Y	rxn	UM32	06/19/92	s	1,3,5-Trinitrobenzene	82.13			0.912	0.749	UC
		UM32	06/19/92	\$	1,3,5-Trinitrobenzene	78.18			9.120	7.130	UG
		UN32	06/19/92	\$	1,3,5-Trinitrobenzene	78.84			9.120	7.190	U
		UL/32	06/19/92	S	1,3,5-Trinitrobenzene	83.76			47.400	39.700	U
		UM32	06/19/92	5	2,4,6-Trinitrotoluene	109.92			1.210	1.330	U
		UL/32	06/19/92	5	2,4,6-Trinitrotoluene	85.95			12.100	10.400	U
		UL32	06/19/92	S	2,4,6-Trinitrotoluene	88.43			12.100	10.700	U
		UL32	06/19/92	\$	2,4,6-Trinitrotoluene	80.54			88.900	71.600	U
		ULGZ	06/19/92	\$	2,4-Dinitrotoluene	81.74			0.115	0.094	U
		UNSZ	06/19/92	\$	2,4-Dinitrotoluene	100.87			1.150	1.160	U
		UL/S2	06/19/92	S	2,4-Dinitrotoluene	101.74			1.150	1.170	U
		UMS2	06/19/92	S	2,4-Dinitrotoluene	90.91			17.600	16.000	U
		UAG2	06/19/92	5	2-Nitrotoluene (TIC)	86.05			0.674	0.580	u
		ULG2	06/19/92	S	2-Mitrotolume (TIC)	%.66 87.87			6.740	6.380	U
		UAG2	06/19/92	S	2-Mitroteluane (TIC)	97.03			6.740	6.540	U
		ULG2 ULG2	06/19/92	\$ \$	2-Mitrotoluene (TIC) Mitrobenzene	89.3 1 92.50			101.000	90.200	U
		UAS2 UAS2	06/19/92	\$	Nitrobenzene Nitrobenzene	92.50 85.83			1.200	1.110	U
		ULS2	06/19/92	S	Ni trobenzene	89.17			12.000	10.300	U
		UNG2	06/19/92	S	Nitrobenzene	81.90			12.000 100.000	10.700	U
		ULG2	06/19/92	\$	Cyclenite (RDX)	84.43			2.440	81.900 2.060	U
		ULG2	06/19/92	5	Cyclenite (RDX)	86.48			24.400		
		UNS2	06/19/92	5	Cyclonite (RDX)	86.48			24.400	21.1 0 0 21.1 0 0	U
		UNS2	06/19/92	\$	Cyclonite (RBX)	86.81			93.800	83.300	Ų
. Y	neo	ULG2	06/30/92	\$	1,3,5-Trinitrobenzene	93.53			0.912	0.853	U
		UNGS	06/30/92	\$	1,3,5-Trinitrobenzene	83.33			9.120	7.600	u
		UM32	06/30/92	\$	1,3,5-Trinitrobenzene	83.33			9.120	7.600	u
		UMS2	06/30/92	\$.	1,3,5-Trinitrobenzone	82.70			47.400	39,200	Ū
		UN32	06/30/92	\$	2,4,6-Trinitrotoluene	112.40			1.210	1.360	į
		ULG2	06/30/92	\$	2,4,6-TrinitrotoLucne	84.30			12.100	10.200	
		UNG2	06/30/92	\$	2,4,6-Trinitrotoluene	85.95			12.100	10.400	
		UMSZ	06/30/92	\$	2,4,6-Trinitrotoluone	75.62			88.900	67.400	
		ULG2	06/30/92	8	2,4-Dinitrotoluone	84.35			0.115	0.097	
		UL/32	06/30/92	\$	2,4-Dinitrotoluene	99.13			1.150	1.140	U
		UAG2	06/30/92	\$	2,4-Dinitrotoluane	99.13			1.150	1.140	t
		UA32	06/30/92	\$	2,4-Dinitroteluene	84.66			17.400	14.900	ı
		rres	06/30/92	8	2-Hitrotoluane (TIC)	65.23			0.674	0.561	ŧ
		mas	04/30/92	8	2-Hitrateluane (TIC)	86.13			6.740	5.940	
•		ING2	06/30/92	8	2-Hitrotoluane (TIC)	91.39			6.740	6.160	
		WSS	04/30/92	•	2-Hitrotolume (TIC)	81.86			101.000	82.700	
		UNS2 UNS2	06/30/92	¥ 1	Kitrobonsone Kitrobonsone	92.50 82.42			1.200 12.000	1.110	•

Notes for Data Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently certified, X = Analyte recovery outside of certified range but within acceptable limits

MINNEY C-76

Tocolo-Horth Phone I RFI Standard Matrix Sample Recults

Lab	Let	Test Nothed	Analysis Date	ec Test	Chamical Hore	Result (%)	Dota Flogs	Deta Qualifiers	Spiked Concen.	tecovered Concen.	Units
ES	YDOD	UN25	04/30/92	\$	Hi trabanzane	. 86.67	· · · · · · · · · · · · · · · · · · ·	·	12.000	10.480	UGL
		ULG2	06/30/92	\$	N i trobenzene	74.50			100.000	74.500	UEL
		ULG2	06/30/92	8	Cyclonite (MBX)	- 100,41			2.440	2.450	UGL
		UAS2	06/30/92	\$	Cyclonite (RDX)	91.39			24.400	22.300	UGL
		ULS2	06/30/92	\$	Cyclonite (RDE)	91.80			24.400	22.400	UGL
		NV25	06/30/92	\$	Cyclonite (RDX)	87.21			93.800	81.800	UGL
ES	YXP	UM32	07/01/92	\$	1,3,5-Trinitrobungane	91.45			0.912	0.834	UGL
		UNSZ	07/01/92	8	1,3,5-Trinitrobenzene	80.15			9.120	7.310	UGL
		ULG2	07/01/92	\$	1,3,5-Trinitrobenzane	80.48			9.120	7.340	UGL
		UNSZ	07/01/92	\$	1,3,5-Trinitrobenzone	82.70			47.400	39.200	UGL
		UNSZ	07/01/92	S	2,4,6-Trinitrotolume	120.66			1.210	1.460	UGL
		ULG2	07/01/92	\$	2,4,6-Trinitrotoluene	83.47			12.100	10.100	UGL
		ULGZ	07/01/92	\$	2,4,6-Trinitrotolume	85.12			12.100	10.300	UGL
		UN32	07/01/92	\$	2,4,6-Trinitrotolusne	79.87			86.900	71.000	UGL
		UAS2	07/01/92	8	2,4-Dinitrotoluene	89.57			0.115	0.103	UGL
		UA/32	07/01/92	\$	2,4-Dinitrotolume	%.52			1.150	1.110	UGL
		NY25	07/01/92	\$	2,4-Dinitrotoluene	94.26			1.150	1.130	UGL
		UA/32	07/01/92	\$	2,4-Dinitrateluana	89.77 87.96			17.600	15.800	UGL
		UA/52 UA/52	07/01/92	\$	2-Mitrotoluene (TIC)	79.82			0.674 6.740	0.595 5.380	ner ner
		ULG2	07/01/92	\$ \$	2-Mitrotoluane (TIC)	E3.09			6.740	5.600	
		UAS2	07/01/92	\$	2-Mitroteluene (TIC)	87.72			101.000	3.600 86.400	
		ULG2	<i>07/01/92</i> <i>07/01/92</i>	5	2-Hitrotoluone (TIC) Hitrobonzone	90.83			1,200	1.090	
		ULS2 ULS2	07/01/92	\$	Hitrobenzene	90.67			12.008	9.480	UGL
		UAS2	07/01/92	\$	Ki trobanzane	81.67			12.000	9.800	UGL
		ULG2	07/01/92	Š	Hitrobensene	77.70			100.000	77.700	UGL
		ULS2	07/01/92	Š	Cyclonite (RDX)	93.44			2.440	2.280	UGL
		UA/S2	07/01/92	Š	Cyclenite (RDX)	88.52			24.400	21.600	UCL
		UASZ	07/01/92	Š	Cyclenite (RDX)	89.34			24.400	21.800	UGL
		UA/32	07/01/92	\$	Cyclonite (RDX)	85.07			93.800	79.800	UGL
ES	YXS	UM32	07/07/92	\$	1,3,5-Trinitrobenzene	81.42			0.958	0.780	UGL
		UAS2	07/07/92	8	1,3,5-Trinitrobenzone	77.24			9.580	7.400	UGL
		UA/S2	07/07/92	8	1,3,5-Trinitrobengene	83.40			9.580	7.990	UGL
		ULGZ	07/07/92	8	1,3,5-Trinitrobenzane	92.17			44,700	41.200	UGL
		UMG2	07/07/92	8	2,4,6-Trinitrotoluone	85.12			1.210	1.030	UGL
		UMS2	07/07/92	8	2,4,6-Trinitrotolume	76.61			12.100	9.270	UGL
		UAS2	07/07/92	\$	2,4,6-Trinitrotelusne	12.44			12.100	10.000	UGL
		UAS2	07/07/92	\$	2,4,6-Trinitrotoluene	87.34			80.400	70.400	UCL
		UNG2	07/07/92	8	2,4-9 ini trotolucno	85.37			0.123	0.105	UGL
		MGS	07/07/92	8	2,4-0initratoluana	83.74			1.230	1.030	UCL
		ULGZ	07/67/92	\$	2,4-8 ini tretoluene	95.12			1.290	1.170	UGL
		MZZ	07/67/92	\$	2,4-Dinitrotoluene	93.90			16.400	15.400	
		ULG2	07/07/92		2-Mitretoluene (TIC)	77.45			0.674	0.522	UEL
		MES	07/07/92		2-Hitroteluane (TIC)	73.44			6.740	4.950	
		NRS	97/97/92		2-Hitrotoluene (TIC)	86.28			6.74	5,950	
		MES	07/07/92		2-Hitroteluene (TIC)	77.80			101.000	80.400	
		mas	07/07/92		Ni trobanzone	92.50			1.200	1.110	
		M25	07/07/92		Hitrobungene	81.50			12.000	9.700	
		UAG2	97/97/92		Hitrobansono	91.67			12.000	11.000	
		ATES	07/07/92		#1 trobongone	81.31			%.300	78.300	
		W63	87/67/92	8	Cyclenite (RDK)	100.41			2.440	2.490	

Notes for Beta Flage: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently sortified, X = Analyte resovery dutaids of certified range but within asseptable limits



Tocele-North Phase I RFI Standard Matrix Sample Results

b	Lot	Test Hethod	Analysis Date	QC Test	Chemical Name	Result (%)	Deta Flags	Deta Qualifiers	Spiked Concen.	Concen.	Un
5	YXS	UNS2	07/07/92	\$	Cyclenite (RDX)	95.49			24.400	23.300	U
		UL/32	07/07/92	S	Cyclonite (RDX)	100.00			24.400	24.400	U
		UMS2	07/07/92	\$	Cyclenite (RDX)	95.19			91.400	87.000	U
5	YXU	UN32	07/18/92	\$	1,3,5-Trinitrobenzame	80.69			0.958	0.773	U
		UL/32	07/18/92	S	1,3,5-Trinitrobenzene	88.41			9.500	8.470	t
		UN32	07/18/92	S	1,3,5-Trinitrobenzene	94.26			9.580	9.030	
		UN32	07/18/92	\$	1,3,5-Trinitrobenzene	94.41			44.700	42.200	
		UN32	07/18/92	S	2,4,6-Trinitrotoluene	97.52 88.43			1.210	1.180	1
		UN32 UN32	07/18/92 07/18/92	S S	2,4,6-Trinitrotoluene 2,4,6-Trinitrotoluene	93.39			12.100	10.700 11.300	
		UNSZ	07/18/92	S	2,4,6-Trinitrotoluene	91.94			12.100 8 0.600	74.180	1
		UM32	07/18/92	S	2,4-Dinitrotoluene	83.74			0.123	0.103	,
		UM32	07/18/92	S	2,4-Dinitrotoluene	86.18			1.230	1.060	
		UN32	07/18/92	S	2.4-Dinitrotoluene	90.24			1.230	1.110	
		UM32	07/18/92	S	2,4-Dinitrotoluene	97.56			16.400	16.000	
		UMSZ	07/18/92	S	2-Amino-4,6-dinitrotoluene	84.37			0.339	0.286	
		UL/S2	07/18/92	S	2-Amino-4,6-dinitrotoluene	83.78			3.390	2.840	
		UNS2	07/18/92	S	2-Amino-4,6-dinitrotoluene	84.96			3.390	2.880	
		UNSZ	07/18/92	S	2-Amino-4,6-dinitrotoluene	90.00			17.000	15.300	
		UNS2	07/18/92	\$	2-Mitrotoluene (TIC)	58.61			0.674	0.395	
		UN32	07/18/92	S	2-Nitrotoluene (TIC)	79.82			6.740	5.380	
		UM32	07/18/92	S	2-Nitrotoluene (TIC)	8 2.49			6.740	5.560	
		UM32	07/18/92	\$	2-Nitrotoluene (TIC)	82.48			101.000	63.300	
		UL632	07/18/92	S	Ni trabenzene	84.17			1.200	1.010	
		UM32	07/18/92	\$	N i trabenzene	85.00			12.000	10.200	
		UM32	07/18/92	S	Ni trobenzene	85.00			12.000	10.200	
		UNSS	07/18/92	S	Ni trobenzene	81.62			96.300	78.600	
		UN25	07/18/92	S	Cyclonite (RDX)	95.90			2.440	2.340	
		UNSZ	07/18/92	\$	Cyclonite (RDX)	94.67			24.400	23.100	
		UL/32	07/1 8/9 2	S	Cyclonite (RDX)	103.69			24.400	25.300	
		UMSS	07/18/92	\$	Cyclonite (RDX)	98.58			91.400	90.100	
i	YXV	UN3S	07/23/92	S	1,3,5-Trinitrobenzene	83.09			0.958	0.796	
		UMS2	07/23/92	\$	1,3,5-Trinitrobenzene	86.53			9.580	8.290	
		UN32	07/23/92	5	1,3,5-Trinitrobenzene	90.71			9.580	8.690	
		UNGS UNGS	07/ 23/9 2 07/ 23/9 2	S S	1,3,5-Trinitrobenzene	98.88			44.700	44.200	
		UMS2	07/23/92	\$	2,4,6-Trinitrotoluene 2,4,6-Trinitrotoluene	101. 6 5 94.21			1.210	1.230	
		UNGS	07/23/92	Š	2,4,6-Trinitrotoluene	97.52			12.100 12.100	11.400 11.800	
		UN25	07/23/92	•	2.4.6-Trinitrotoluene	100.99			80.600	81.400	
		UMSS	07/23/92	s	2.4-Dinitrotoluene	88.42			0.123	0.109	
		UASZ	07/23/92	Š	2,4-Dinitrotolume	94.31			1.230	1.160	
		UNSZ	07/23/92	\$	2.4-Dinitrotolume	96.73			1.230	1.190	
		UNSZ	07/23/92	\$	2,4-Dinitrotoluene	105.49			16.400	17.300	
		UNSZ	07/23/92	\$	2-Mitrotoluene (TIC)	76.56			0.674	0.516	
		UMS2	07/23/92	\$	2-Nitrotoluene (TIC)	90.45			6.740	6.110	
		UNSZ	07/23/92	8	2-Mitrotoluene (TIC)	91.54			6.740	6.170	
		UNS2	07/23/92	8	2-Hitroteluene (TIC)	95.54			101.000	%.500	
		ULG2	07/23/92	\$	#itrebenzene	83.33			1.200	1.000	
		UNG2	07/23/92	8	Nitrebenzane	84.17			12.000	10.100	
		ULG2	07/23/92	\$	Ni trobenzene	87.50			12.000	10.500	
		UNSZ	07/23/92	\$	Hitrebenzone	93.77			96.300	70.300	

Notes for Data Flage: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not current certified, X = Analyte recovery outside of certified range but within acceptable limits

Topolo-Morth Phase 1 177: Standard Matrix Sample Results

-	Lot	Test Hethed	Analysis Date	QC Test	Chapical Name	Annul t	Dete Flags	Data Qualifiers	Spiked Censen.	Recevered Concern.	Uni
										2.030	US
\$	VXV	UA32	07/23/92	\$	Cyclenite (RDK)	83.20			2.440	21.300	UE
		ULS2	07/23/92	\$	Cyclenite (ROX)	87.30			24.400	22,600	U
		UAS2	07/23/92	\$	Cyclenite (RDX)	92.62			24.400	90.700	u
		UNSZ	07/23/92	8	Cyclenite (NOK)	99.23	-		91.400	90.700	
8	YX	UNB2	07/ 23/9 2	\$	1,3,5-Trinitrobensone	78.71			0.958	0.754	U
		USZ	07/23/92	\$	1,3,5-Trinitrobenesse	91.13			9.500	8.730	U
		UNZ	07/ 23/9 2	\$	1,3,5-Trinitrobenzone	%.03			9.500	9.200	u
		UM32	07/23/92	8	1,3,5-Trinitrobenzane	19.24			44.700	39.900	U
		ULSZ	07/23/92	\$	2,4,6-Trinitrotolume	100.43			1.210	1.220	U
		UM32	07/23/92	5	2,4,6-Trinitrotolume	96.60			12.100	11.700	U
		UNGZ	07/23/92	\$	2,4,6-Trinitrotolume	100.00			12.100	12.100	Ü
		UMSZ	07/23/92	\$	2,4,6-Trinitrotolusne	91.32			80.400	73.400	u
		UN32	07/23/92	8	2,4-Dinitrotoluene	65.85			8.123	0.081	U
		UNSZ	07/23/92	\$	2,4-Dinitrotoluene	95.12			1.230	1.170	U
		ULSZ	07/23/92	\$	2,4-Binitrotoluene	97.56			1.230	1.200	U
		ULS2	07/23/92	8	2,4-Dinitroteluene	97.56			16.400	16.000	U
		UMS2	07/23/92	8	2-Hitrotoluane (TIC)	63.66			0.674	0.425	Ų
		UNSZ	07/23/92	8	2-Hitrocolumne (716)	· 89.47			4.740	6.630	U
		UAS2	07/23/92	8	2-Hitrotoluane (TIC)	91.10			6.740	6.140	u
		ULSZ	07/23/92	\$	2-Hitrotoluune (TIC)	86.24			101.000	67.100	U
		ULSZ	07/23/92	8	Hitrobensone	78.58			1.200	0.943	
		ULSZ	07/23/92	\$	Hitrebensene	89.17			12.000	10.700	
		UASZ	07/23/92	\$	Hitrebensene	90.43			12.000	10.700	
		UAGZ	07/23/92	\$	Hitrebensone	84.11			96.300	81.000	1
		ULSZ	07/23/92	\$	Cyclenite (RDK)	90.96			2.440	2.220	L
		ULSZ	07/23/92	\$	Cyclonite (ROX)	97.54			24.400	23.800	
		UA/S2	07/23/92	\$	Cyclenite (NDK)	105.49			24,480	25.300	
		UAS2	07/23/92	\$	Cyclenite (NOX)	89.61			91,400	81.900	
,	YXX	UAS2	07/26/92	\$	1.3.5-Trinitrobenzone	75.47			0.958	0.723	, t
3	TAA			Š	1,3,5-Trinitrebensene	71.92			7.580	6.890	
		ULSZ	07/26/92	_	1,3,5-Trinitrobensone	76.83			7.500	7.360	
		UAS2	07/26/92	\$					44.700	33.800	
		ULS2	07/24/92	\$	1,3,5-Trinitrebensone	5.62			1.210	1.190	
		UKSZ	07/24/92		2,4,6-Trinitretolume	90.35			12.100	10.190	
		ULG2	07/26/92		2,4,6-Trinitretelume	83.47				10.800	
		UASZ	07/26/92		2,4,6-Trinitretoluene	89.26			12.100 80.400	45.000	
		ULSZ	07/26/92		2,4,6-Trinitretolume	80.45				9.096	
		UAS2	07/26/92		2,4-Dinitrotolume	78.65			0.125		
		UASZ	07/26/92		2,4-pinitrotoluene	84.55			1.230	1.040	
		nras	07/26/92		2,4-9 ini trotoluone	91.06			1.230	1.120	
		ULGZ	07/26/92		2,4-9 ini trotoluone	94.51			16.400	15.300	
		nr25	07/26/92		2-Nitrotoluone (TIC)	67.21			0.674	0.451	
		MZS	07/26/92		2-Mitrotoluone (TIC)	82.34			4.740	5.550	
		UASZ	07/26/92		2-Mitrotoluone (TIC)	91.54			6.740	6.170	
		WGZ	07/26/92		2-Hitrotoluone (TIC)	85.84			101.000	86.700	
		ULG2	07/26/92		Hitrobensone	25.00			1,200	1.02	
		ULS 2	07/26/92		Hitrobonsono	74.92			12.000	8.990	
		UMB2	07/26/92		Hitrobandune	82.00			12,000	9.84	
		MES	07/26/92		Hitrobendane	77.86			76.300	75.00	
		WEZ	07/26/92		Cyclenite (RBK)	87.30			2.440	2.13	
		UAS2	67/86/92		Cyclenite (NBK)	74.39			24,400	10.20	•
		ua:	07/26/92		Cyclenite (RBK)	79.51			24,460	19.40	~

Notes for Boto Flage: 1 = Results Loss than CRL but greater than CCB, R = Analyte required for reporting purposes but not ourrantly cortified, X = Analyte recovery outside of cortified range but within acceptable limits

Topele-North Phase I RFI Standard Matrix Sample Results

ab de	Lot	Test Method	Analysis Date	QC Test	Chemical Home	Result (%)	Deta Flags	Data Qualifiers	Spiked Cencen.	Recovered Concer.	Uni
\$	YXX	UNGS	07/26/92	s	Cyclonite (RDX)	75.16	·	· · · · · · · · · · · · · · · · · · ·	91.400	68.700	UG
\$	YYM	•	05/20/92	\$	Total petroleum hydrocerbons	93.46			4280.000	4000.000	UG
\$	ZAI	JD17	06/16/92	\$	Lead	8 2.74			0.481	0.398	U
		JD17	06/16/92	\$	Lead	89.09			7.700	6.860	U
		J017	06/16/92	\$	Leed	91.37			7.880	7.200	u
S	ZAJ	JD17	06/22/92	\$	Lead	82.48			0.491	0.405	U
		JD17	06/22/92	\$	Leed	97.36			7.960	7.750	U
		J017	06/22/92	\$	Lead	99.12			7.960	7.890	ı
;	ZAH	J017	07/10/92	S	Leed	103.43			0.496	0.513	L
		J017	07/10/92	S	Lead	96.84			7.790	7.700	i
		JD17	07/10/92	\$	Leed	102.02			7.940	8.100	i
3	ZAN	J017	07/16/92	s	Leed	121.06			0.489	0.592	ι
		J017	07/16/92	\$	Lead	102.00			7.510	7.660	į
		J017	07/16/92	\$	Lead	100.39			7.790	7.820	i
3	ZAO	J 017	07/13/92	\$	Leed	88.71			0.496	0.440	ŧ
		J017	07/13/92	\$	Lead	96.43			7.420	7.500	į
		JD17	07/13/92	\$	Leed	95.71			7.700	7.370	1
	ZAP	J 017	07/14/92	\$	Lead	112.11			0.479	0.537	(
		J 017	07/14/92	\$	Lead	110.00			7.700	8.470	ı
		J 017	07/14/92	S	Lead	109.32			7.830	8.560	•
;	ZAS	JD17	07/14/92	\$	Lead	96.80			0.469	0.454	ı
		J017	07/14/92	\$	Lead	106.29			7.790	8.280	1
		J017	07/14/92	\$	Leed .	107.65			7.840	8.440	(
	ZAW	JD17	07/25/92	\$	Leed	94.59			0.481	0.455	(
		J017	07/25/92	\$	Lend	84.52			7.560	6.390	•
		J 017	07/25/92	\$	Lead	90.75			7.570	6.870	(
	ZAX	J 017	08/17/92	\$	Lead	89.42			0.482	0.431	(
		JD17	08/17/92	\$	Lead	90.63			7.820	7.040	(
		JD17	08/17/92	\$	Leed	94.34			7.950	7.500	•
	ZAZ	J017	08/16/92	\$	Leed	78.36			0.476	0.373	(
		J017	08/16/92	\$	Lead	91.81			7.490	7.040	(
		J 017	08/16/92	\$	Leed	95.96			7.970	7.450	(
	2CA	TF27	05/27/92	\$	Phosphate	96.00			25.000	24.000	
		TF27	05/27/92	8	Phosphate	101.33			375.000	380.000	
		TF27	05/27/92	8	Phosphete	101.33			375.000	380.000	- 1
	2C8	TF27	06/24/92		Phosphete	92.00			25.000	23.000	
		1727	06/24/92	8	Phosphete	98.67			375.000	370.000	
		1727	06/54/45	8	Phosphete	101.33			375.000	300.000	1
	ZCC	1727	07/08/92		Phosphete	112.60					

Notes for Data Flags: 1 = Results Less than CRL but greater than CCO, R = Analyte required for reporting purposes but not currently cortified, X = Analyte recovery outside of cortified range but within acceptable limits

AFFECT 8-18

Totale-Marth Photo 1 MP1 Standard Ageria Sample Regults

	Lat	Toot Method	Amilysis Dete	OC Toet	Chamical Name	Mault (%)	Seta Flage	Deta Quelifiers	Spiked Cencen.	Recovered Canasan.	Uni
3	SCC	TF27	07/06/92	8	Phosphate	98.67			375.000	370.000	
		1727	07/08/92	8	Phosphete	101.33			375.000	380.000	UG
3	200	TF27	07/22/92	\$	Phosphete	92.00			25.000	23.000	UG
		1727	07/22/92	8	Pheephete	98.67			375.000	370.000	UG
		T F27	07/22/92	\$	Phosphate	101.33			375.000	380.000	W
3	ZCE	T F27	08/11/92	8	Phogghate	108.60			25.000	27.000	UE
		1727	08/11/92	\$	Phosphote	104.00		,	375.000	390.000	U
		TF27	08/11/92	\$	Phosphate	106.67			375.000	400.000	UE
1	ZCF	1727	09/03/92	5	Phosphate	104.00			25.000	26.000	UE
		1F27	09/03/92	\$	Phosphate	101.33			375.000	380.800	UE
		1 F27	09/03/92	\$	Phosphate	101.33			375.000	380.000	U
;	20 C	KF10	06/12/92	s	Nitrite, nitrate - nonapacified	99.17			1,200	1.190	UE
•		KF10	06/12/92	8	Hitrite, nitrate - nemescified	102.00			10.000	10.200	u
		KF10	06/12/92	\$	Hitrite, nitrate - nemapacified	104.00		·	10.000	10.400	u
	200	KF10	06/24/92	\$	Nitrite, nitrate - nonepacified	97.50			1.200	1,170	u
•		KF10	06/24/92	\$	Nitrite, nitrate - nanegecified	98.40			10.900	7.840	_
		KF10	06/34/92	\$	Mitrite, mitrate - monepocified	78.60			10.000	7.860	
		KF10	04 (70 (92	s	Mississ signess - sessential						
•	20E	KF10	06/30/92	•	Mitrite, nitrate - managerified Nitrite, nitrate - managerified	95.00 95.00			1.200	1.146 9.500	
		KF10	06/30/92	\$	Hitrite, nitrate - nonspecified	95.70			10.900 16.900	9.570	
,		KF10	07/06/92	s	Mississ sissess - sessential	100 00					
ł	ZDF	KF10	07/06/92	\$	Mitrite, nitrate - nonepocified	100.50			1.200	1.200	
		KF10	07/06/92	•	Mitrite, nitrate - nonapacified Nitrite, nitrate - nonapacified	94.10 94.30			10.000 10.000	9.410 9.430	
		4,7 10	01,00,74	•					10.000	7.400	•
	ZDG	KF10	07/09/92	8	Mitrite, nitrate - nonepecified	93.33			1.200	1.120	U
		KF10	07/09/92	8	Hitrite, nitrate - nonepocified	92.50			10.800	9.250	
		KF10	07/09/92	8	Hitrite, nitrate - nanepacified	15.20			10.000	9.320	U
	20H	KF10	07/13/92	8	Hitrite, nitrete - nemepicified	96.67			1.200	1.160	U
		KF10	07/13/92	8	Hitrite, nitrate - nempecified	95.30			18.000	7.530	ŧ
		KF10	07/13/92	8	Witrite, nitrate - nonepacified	95.40			10.000	7.540	ŧ
	29.1	KF10	07/16/92	8	Nitrite, mitrete - memepacified	75.33			1.200	1.129	ı
		KF10	97/16/92	8	Mitrite, mitrate - managesified	94.30			10.000	7.430	
		KF10	07/16/92	8	Hitrite, nitrete - noneposified	95.30			10.000	7.530	t
	ZDK	KF10	07/20/92	8	Hitrite, mitrate - menapocified	96.17			1.200	1.130	
		KF10	07/20/92	8	Hitrite, mitrate - managedified	94,30			10.000	9.430	
		KF10	07/20/92	8	Hitrite, nitrate - nameposified	95.70			10.000	7.570	•
3	20 L	KF16	07/24/92		Hitrite, mitrate - management of	97.30			1.200	1.170) (
		KF10	07/34/92		Hitrite, nitrete - naneposified	95.10			10.000	7.310	
		KP10	67/24/92	8	Witrise, mitrese - managesified	97.10			10.000	9.710	
1	201	KF10	67/80/92		Hitrito, mitroto - managasified	97.30	*		1.200	1.170	
		EF10	W/30/92		Hitrite, mitrate - menagesified	96.10			16.000	7.410	

Hotes for Bate Flage: 1 = Results less than CRL but greater than CBD, R = Analyte required for reporting purposes but not currently cortified, X = Analyte recovery outside of cortified range but within asseptable limits

Topele-North Phase I RFI Standard Matrix Sample Results

Lab	Lot	Test Method	Analysis Date	QC Test	Chemical	. Name	Result (%)	Data Flags	Data Qualifiers	Spiked Concen.	Recovered Concen.	Unit
ES	ZDH	KF10	07/30/92	S	Mitrite, nitrate	nonepecified	97.00			10.000	9,700	UGG
ES	ZDN	KF10	08/05/92	8	Nitrite, nitrate -	nonepacified	97.50			1.200	1.170	UGE
		KF10	08/05/92	8	Mitrite, nitrate	nonepacified	94.80			10.000	9.480	UGG
		KF10	08/05/92	\$	Mitrite, nitrate	nonepecified	95.50			10.000	9.550	UG
S	ZD O	KF10	08/10/92	\$	Mitrite, nitrate	nonepecified	98.33			1.200	1,180	UG
		KF10	08/10/92	\$	Mitrite, nitrate -	nonspecified	96.00			10.000	9.600	UG
		KF10	08/10/92	S	Nitrite, nitrate -	nonspecified	96.70			10.000	9.670	UG
S	ZDP	KF10	08/18/92	s	Nitrite, nitrate		100.00			1.200	1.200	UG
		KF10	08/18/92	S	Nitrite, nitrate ·	•	96.10			10.000	9.810	UG
		KF10	08/18/92	\$	Nitrite, mitrate -	nonspecified	98.20			10.000	9.820	UG
3	ZDR	KF10	08/24/92	\$	Nitrite, nitrate	•	94.17			1.200	1.130	UG
		KF10	08/24/92	S	Mitrite, nitrate	•	98.80			10.000	9.860	UG
		KF10	08/24/92	S	Mitrite, nitrate -	nonspecified	99.70			10.000	9.970	UG
3	ZDS	KF10	08/27/92	\$	Nitrite, nitrate -	•	97.50			1.200	1.170	UG
		KF10	08/27/92	\$	Mitrite, nitrate	•	93.40			10.000	9.340	U
	٠.	KF10	08/27/92	\$	Nitrite, nitrate -	nonepecified	94.70			10.000	9.470	U
	ΤC	KF10	09/02/92	\$	Hitrite, nitrate	•	95.43			1.200	1.150	u
		KF10	09/02/92	\$	Hitrite, nitrate -		94.50			10.000	9.450	U
		KF10	09/02/92	\$	Nitrite, nitrate	nonepecified	94.70			10.000	9.470	U
\$	ZDU	KF10	09/04/92	\$	Mitrite, nitrate	• .	100.83			1.200	1.210	U
		KF10	09/04/92	S	Mitrite, nitrate	•	94.80			10.000	9.480	u
		KF10	09/04/92	\$	Nitrite, nitrate	nonspecified	95.60			10.000	9.560	U
\$	ZEE	KY01	06/11/92	\$	Cyanide		113.23			1.890	2.140	U
		KY01	06/11/92	\$	Cyanide		97.48			7.550	7.360	u
		KY01	06/11/92	\$	Cyanide		102.12			7.550	7.710	U
3	ZEF	KY01	06/23/92	\$	Cyanide		90.40			1.770	1.400	U
		KY01	06/23/92	8	Cyanida		90.91			7.260	6.600	U
		KY01	06/23/92	S	Cyanide		105.10			7.260	7.630	U
5	ZEG	KY01	06/25/92	\$	Cyanide		91.62			1.910	1.750	U
		KY01	06/25/92	\$	Cyanide		90.94			7.620	6.930	U
		KY01	06/25/92	\$	Cyanide		91.34			7.620	6.960	U
8	ZEH	KY01	07/01/92	\$	Cyanida		103.66			1.910	1.980	U
		KY01	07/01/92	\$	Cyenide		90.52			7.700	4.970	U
		KY01	07/01/92	\$	Cyanide		96.10			7.700	7.400	U
B	ZEI	KY01	07/09/92	8	Cyanide		104.15			1.990	2.010	U
		KY01	07/09/92	8	Cyunide		180.52			7.700	7.740	U
	٠,	KY01	07/09/92	*	Cyahide		100.78			7.700	7.760	U
	ij	KY01	07/07/92	8	Cyanide		86.91			1.910	1.440	U
		KY01	07/07/92	\$	Cyenide		92.39			7.430	7.840	
		KY01	07/07/92	8	Cyanide		92.45			7.420	7.000	•

Notes for Data Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently certified, X = Analyte recovery outside of certified range but within acceptable limits

Toolig-Herth Phase | RF1 Standard Matrix Sample Results

•

Leb	Let	Test Hethod	Analysis Date	QC Test	Chemical Name	Regult (X)	Pota Flags	Deta Qualifiers	Spiked Consen.	Recevered Concen.	Unit
ES	ZEK	KY01	07/14/92	8	Cyenide	95.34			1.950	1.840	UBC
		KY01	07/14/92	\$	Cyanide	75.90			7.700	7.290	UGG
		KY01	07/14/92	S	Cyanide	93.90			7.700	7.230	UEG
ES	ZEL	KY01	07/21/92	\$	Cyanide	118.65			1.930	2.290	UGE
		KY01	07/21/92	2	Cyanide	101.95			7.700	7.850	UGG
		KY01	07/21/92	\$	Cyunide	102.34			7.700	7.888	UBA
ES	ZEM	KY01	07/22/92	\$	Cyanide	79.79			1.930	1.540	UGK
		KY01	07/22/92	\$	Cyenide	110.78			7.700	8.530	UCC
		KY01	07/22/92	8	Cyanide	111.43			7.700	8.500	UGE
ES	ZEN	KY01	07/24/92	\$	Cyanide	103.63			1.930	2.000	UGE
		KY01	07/24/92	8	Cyanide	105.19			7.700	8.160	UCA
		KY01	07/24/92	\$	Cyanide	105.58			7.700	8.130	UCC
P	ZEP	KY01	08/04/92	s	Cyanide	101.04			1.930	1.950	UGE
		KY01	08/04/92	8	Cyanide	101.56			7.700	7.820	UB
		KY01	08/04/95	\$	Cyunide	102.21			7.700	7.870	UGG
28	250	KY01	07/27/92	\$	Cyenide	99.00			0.180	0.000	
ES	ZES	KY01	08/21/92	\$	Cyenide	94.89			1.930	1.879	
		KY01	08/20/92	\$	Cyenide	99.06			7.620	7.550	UD
		KY01	08/20/92	8	Cyenide	104.94			7.700	8.000	UBI
ES	ZET	KY01	08/19/92	\$	Cyanide	102.62			1.910	1.960	UGI
		KY01	08/19/92	8	Cyunide	101.05			7.620	7.700	UG
		KY01	06/19/92	\$	Cyenide	160.45			7.700	7.750	UG
is .	ZEY	KY01	08/18/92	\$	Cyenide	109.33			1.930	2.110	UG
		KY01	08/18/92	\$	Cyanide	92.99			7.790	7.140	UG
		KY01	08/18/92	\$	Cyanide	%.75			7.700	7.450	UG
18	ZFD	UN14	07/31/92	8	Silver	67.18			0.909	9.451	UE
		UN14	07/31/92	\$	2,4-Dichlorophonoxyocotic acid / 2,4-D	63.63			1.880	1.200	UB
ES	ZSA	8021	06/17/92	8	Selenium	98.00			5.000	4.900	UG
		2021	06/17/92	8	Selenium	90.40			75.000	67.800	
		3921	06/17/92	8	Setanium	92.27			75.000	67.200	U
13	200	8021	07/10/92		Selanium	92.00			5.000	4.400	u
		50 21	07/10/92	8	Selanium	90.13			75.000	67.400	
		5021	07/10/92	8	Selenium	90.53			75.000	67.900	u
15	206	1021	67/25/92		Solanium	8.0			5.000	4.400	
		8061	97/25/92	8	Selanius	W.15			73.000	44.200	
		8821	07/25/92	8	Selenium	92.44			75.000	W.300	100
16	20K	1500	00/25/92		Solanium	114.00			5.000	5.700	-
		8921	06/25/92		Solonius	99.67			75.000	74.900	
		8921	44/25/92	8	Bolanius	102.00			75,000	76.900	

Hotes for Date Flage: 1 - Results less than CRL but greater than CRD, R - Analyte required for reporting purposes but not currently cortified, X - Analyte recovery outside of certified range but within acceptable limits

Topole-North Phase I RFI Standard Matrix Sample Results

	Lot	Method	Date	Test	Chamical Hane	(%)	Flags	Qualiffers	Spilted Concen.	Resevered Concen.	Uni
3	ZGO	SD21	06/08/92	\$	Selenium	180.86			5.000	5.000	<u> </u>
		8021	08/08/92	\$	Setenium	96.80			75.600	72.600	UG
		8021	08/08/92	\$	Selenium	100.53			75.000	75.400	UGI
8	ZGS	8021	09/10/92	8	Selenium	116.05			5.000	5.800	UGI
		SD21	09/10/92	\$	Selenium	98.60			75.000	73.500	UG
		SD21	09/10/92	\$	Selenium	96.53			75.000	73.900	UG
5	ZGT	8021	06/14/92	\$	Selenium	160.00			5.000	5.000	UG
		8021	08/14/92	\$	Selenium	100.00			75.000	75.000	UG
		80 21	06/14/92	\$	Selenium	100.53			75.000	75.400	UG
3	ZHB	LW12	07/07/92	\$	1,3,5-Trinitrobenzene	60.52			1.150	0.696	UE
		LW12	07/07/92	\$	1,3,5-Trinitrobensene	76.14			9.220	7.020	u
		LW12	07/07/92	\$	1,3,5-Trinitrobenzene	86.44			9.220	7.970	U
		LW12	07/07/92	\$	2,4,6-Trinitrotoluse	85.60			1.100	0.935	u
		LW12	07/07/92 07/07/92	\$ \$	2,4,6-Trinitrotolume 2,4,6-Trinitrotolume	89.77 182.73			8.800	7.900	U
		LW12	07/07/92	•	2,4-Dinitrotoluse	70.89			8.866 1.230	9.040	U
		LW12	07/07/92	\$	2,4-Dinitrotoluene	72.66			9.840	0. 872 7.150	U
		LW12	07/07/92	•	2.4-Dinitrotolume	82.01			9.840	8.070	u
	L	LW12	07/07/92	\$	2-Nitretaluene (TIC)	91.70			0.530	0.486	U
		LW12	07/07/92	\$	2-Nitrotoluene (TIC)	77.43			22.800	17.700	U
		LW12	07/07/92	\$	2-Mitrotoluene (TIC)	90.79			22.800	20.700	Ū
		LW12	07/07/92	\$	2-Witrotoluene (TIC)	90.79			45.600	41.400	Ü
		LW12	07/07/92	\$	Hitrobensone	86.60			3.060	2.650	U
		LW12	07/07/92	\$	Ni trobensene	83.27			24.500	20.460	U
		LW12	07/07/92	\$	Ni trobenzene	94.29			24.500	23.100	U
		LW12	07/07/92	8	Cyclenite (RDX)	101.42			1.100	1.120	U
		LW12	07/07/92	\$	Cyclenite (RDX)	83.62			8.790	7.350	U
		LW12	07/07/92	\$	Cyclenite (RDX)	94.77			8.790	8.330	U
	ZNC	LW12	07/07/92	\$	1,3,5-Trinitrobenzene	77.57			1.150	0.892	U
		LW12	97/97/92	\$	1,3,5-Trinitrobenzone	85.44			9.220	7.960	U
		LW12	07/07/92	\$	1,3,5-Trinitrebensene	87.44			7.220	8.000	L
		LW12	07/07/92 07/07/92	\$	2,4,6-Trinitrotolume	90.91			1.100	1.000	ı
		LW12	07/07/92	•	2,4,6-Trinitrotolume 2,4,6-Trinitrotolume	163.41 165.46			8.800	9.100	ŀ
		LW12	07/07/92	•	2,4-Binitroteluene	8.42			8.800 1.230	9.300 1.090	
		LV12	07/97/92	•	2,4-Dinitrotoluene	84.45			9.840	8.310	ŀ
		LW12	07/07/92	\$	2,4-Dinitrotolume	85.06			7.840	8.370	į
		LW12	07/07/92	\$	2-Hitrotoluene (TIC)	84.72			0.530	0.449	ì
		LW12	07/07/92	8	2-Hitrotoluene (TIC)	91.67			22.800	20.900	i
		LW12	07/07/92	8	2-Hitrotolugne (TIC)	92.96			22.800	21.200	Ū
		LW12	07/07/92	8	2-Hitrotolume (TIC)	95.43			45.400	43.700	ŭ
		LW12	07/07/92	8	Hitrebansone	92.16			3.060	2.820	
		LW12	67/67/92	8	Hitrobensone	95.92			24.500	23.500	•
		rnus	87/97/92	8	Hi trabangane	97.95			24.500	23.900	ı
••		TN15	07/07/92	8	Cyclenite (RBK)	92.73			1.100	1.020	•
		LUIZ	07/07/92	8	Cyclenite (RMK)	75.48			8.790	8.410	t

Notes for Data Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not ourrantly contified, X = Analyte recovery outsid: of certified range but within acceptable limits

APPRINCE C- 18

Theole-Horth Phase I RFI Standard Matrix Sample Results

		Method	Sate	Test	Chamical Name	(%)	Flags	Qualifiers	Canoan.	Concen.	Unit
18	ZME	uriz	07/09/92	\$	1,3,5-Trinitrobonnone	74.00			1.150	0.852	UGS
		LW12	97/99/92	8	1,3,5-Trinitrebonnene	65.65			9.220	7.860	UBG
		LW12	67/ 99/92	8	1,3,5-Trinitrebenane	87.53			7.220	8.670	UOG
		LW12	07/09/92	8	2,4,6-Trinitrotoluone	94.55			1.100	1.048	UGE
		LV12	07/09/92	8	2,4,6-Trinitrotolume	96.30		•	8.800	8.450	UBS
		MIS	07/09/92	8	2,4,6-Trinitretelume	102.16			8.000	8.990	106
		LW12	07/09/92	\$	2,4-Dini trotoluuno	86.18			1.230	1.060	UGG
		LW12	07/09/92	\$	2,4-Dinitrataluma 2,4-Dinitrataluma	87.69 87.50			9.840 9.840	8.570	UBS
		LW12	07/09/92	\$	2-Hitrotolume (TIC)	85.44			0.530	8.610 0.454	20U 20U
		LW12	07/09/92	\$	2-Hitrotolume (TIC)	95.42			22.800	21.300	UCS
		LW12	07/09/92	•	2-Hitrateluane (TIC)	93.86			22.800	21.400	UGS
		LW12	07/09/92	•	2-Hitrotolume (TIC)	95.18			45.400	43.400	UGE
		LW12	87/09/92	•	Hitrobonsone	100.80			3.060	3.060	UCE
		rmis	07/09/92	\$	Hitrobennene	95.06			24.500	22.800	UEE
		LW12	07/00/92	\$	Hitrobanaene	95.47			24.500	22.900	ves
		LW12	87/89/92	•	Cyclenite (RBK)	90.91			1.100	1.000	USE
		LU12	07/09/92	8	Cyclenite (REK)	%.02			8.790	8.440	UGS
		LW12	07/99/92	\$	Cyclenite (REK)	96.95			8.790	8.520	UGS
8	ZHF	MIS	07/11/92	\$	1,3,5-Trinitrebaneane	77.30			1.130	0.800	
		LUTZ	97/11/92	\$	1,3,5-Trinitrebensens	81.56			7.220	7.520	
		FM15	97/11/92	\$	1,3,5-Trinitrebensene	87.44			7.220	8.000	UBE
		TN15	07/11/92	8	2,4,6-Trinitretelume	%.55 162.73			1.100	1.940	UGG
		LV12 LV12	67/11/92	\$ \$	2,4,6-Trinitrotolume 2,4,6-Trinitrotolume	165.18			8.890 8.800	9.040 9.000	uge uge
		LW12	07/11/92	•	2,4-Binitrotolume	82.95			1.230	1.620	UGS
		LW12	07/11/92	Š	2,4-9 ini trotelugne	86.30			7.840	8.500	UDE
		LUIZ	07/11/92	•	2.4-Dinitroteluses	M.30			7.840	8.500	UDG
		LW12	07/11/92	\$	2-Hitrotolume (TIC)	86.49			0.530	0.449	UES
		LV12	07/11/92	8	2-Mitretelume (TIC)	91.23			22.800	20.800	UGE
		LW12	07/11/92	8	2-Hitrotolume (TIC)	91.23			22.800	20.800	UGE
		LW12	07/11/92	8	2-Bitrotoluene (TIC)	88.30			45.600	40.300	UGG
		LW12	07/11/92	8	Hitrobanaone	92.44			3.060	2.430	UDE
		M15	07/11/92	8	Hitrobensene	20.19			24.500	22.480	UGS
		LIVIZ	07/11/92	8	Hi trabansone	92.24			24.500	22.400	UOG
		LU12	67/11/92	8	Cyclenite (NMK)	96.36			1.100	1.060	Vec
		FAUS	07/11/92	8	Cyclenite (NMK)	75.44			8.790	8.410	VOI
		LW12	07/11/92	8	Cyclenise (RBK)	96.47			8.790	8.480	UBI
3	Z116	LW12	67/12/92	\$	1.3.5-Trinitroboncone	66.52			1.150	0.786	
•		LW12	07/12/92	•	1,3,5-Trinitrobangene	87.85			7.220	8.100	
		LW12	07/12/72	\$	1,3,5-Trinitrobensone	89.59			7.220	8.360	
		MIS	07/12/92	8	2,4,6-Trinitrotolume	88.00			1.100	0.940	
		rn45	07/12/92	8	2,4,6-Trinitretelume	101.98			8.800	8.970	-
		LWIZ	67/12/92	8	2,4,6-Trinitrotolume	165.23			8.000	7.260	
		MIS	07/12/92	8	2,4-Dinitrotelume	77.34			1.230	0.750	
		CALS	67/12/12	\$	2,4-Binitrotelusne	87.69			7.860	8.570	100
		LUTZ	67/12/FE	8	2,4-Dinitrotolusno	87.40			9.840	8.400	
		TAIS	07/12/92	8	2-Hitrotoluano (710)	70.00			0.530	9.477	
		MIS	07/12/92 07/12/92	8	2-Hitrotoluene (TIC)	12.73			22.000	21.200	

Hotes for Buts Flags: 1 = Missits less than CRL but greater than CRD; R = Analyte required for reporting purposes but not currently cortified, X = Analyte reservery outside of cortified range but within acceptable limits

Topele-North Phase I RFI Standard Matrix Sample Results

•	Lot	Test Nethed	Analysis Date	Test	Chamical Name	Result (%)	Deta Flags	Dete Qualifiers	Spiked Concen.	Recovered Concen.	Unit
\$	ZNG	TR15	07/12/92	8	2-Hitrotoluane (TIC)	92.32			45.400	42.100	UG
		LW12	07/12/92	8	Ni trobenzone	88.54			3.060	2.710	UGE
		LW12	07/12/92	\$	Hitrobanzone	93.47		•	24.500	22.900	UG
		LW12	07/12/92	\$	Ni trobanzane	93.47		_	-24.500	22.900	1
		LW12	07/12/92	\$	Cyclenite (RBX)	56.45		•	1.100	0.621	UG
		LW12	07/12/92	8	Cyclenite (RDX)	98.07		· ·	8.790	8.620	UG
		LW12	07/12/92	\$	Cyclenite (R9X)	99.20			8.790	8.720	UG
•	ZNI	LW12	07/08/92	\$	1,3,5-Trinitrobenzene	64.87			1.150	0.746	'uc
		LW12	07/08/92	S	1,3,5-Trinitrobenzene	84.06			9.220	7.750	UC
		LU12	07/08/92	\$	1,3,5-Trinitrobenzone	92.52			9.220	8.530	U
		LW12	07/08/92	S	2,4,6-Trinitrotoluene	83.64			1.100	0.920	UE
		LW12	07/ 08/9 2	2	2,4,6-Trinitrotoluene	99.43			8.800	8.750	UC
		LW12	07/08/92	\$	2,4,6-Trinitrotoluene	105.80			8.800	9.310	U
		LW12	07/ 98/9 2	8	2,4-Dinitrotoluone	78.86			1.230	0.970	U
		LW12	07/08/92	\$	2,4-Dinitrotoluene	86.28			9.840	8.490	U
		LW12	07/08/92	8	2,4-Dinitrotoluone	86.52			9.860	8.710	UC
		LW12	07/06/92	\$	2-Hitrotoluene (TIC)	74.15			0.530	0.393	U
		LW12	07/08/92	\$	2-Hitroteluone (TIC)	86.40			22.800	20.200	U
		LV12	07/06/92	\$	2-Nitrotoluene (TIC)	94.30			22.800	21.500	U
		LV12	07/09/92	\$	2-Mitroteluene (TIC)	93.44			45.600	42.700	U
		LW12	07/06/92	\$	Nitrobenzene	89.87			3.060	2.750	U
	LW12	07/06/92	5	Ni trobenzene	95.06			24.500	22.800	U	
		LW12	07/08/92	\$	Nitrobenzene	95.92			24.500	23.500	U
		LW12	07/06/92	S	Cyclonite (RDX)	85.36			1.100	0.939	U
		LW12	07/08/92	\$	Cyclonite (RDX)	98.41			8.790	8.650	U
		LW12	07/08/92	\$	Cyclonite (RDX)	100.46			8.790	8.430	U
3	ZNJ	LW12	07/12/92	\$	1,3,5-Trinitrobenzone	76.26			1.150	0.877	UE
		LW12	07/12/92	\$	1,3,5-Trinitrobenzene	83.19			9.220	7.670	U
		TR15	07/12/92	8	1,3,5-Trinitrobenzene	84.92			9.220	7.830	U
		LW12	07/ 23/9 2	\$	1,3,5-Trinitrobenzene	92.19			9.220	8.500	U
		LW12	07/12/92	8	2,4,6-Trinitrotolume	81.09			1.100	0.892	U
		LW12	07/12/92	\$	2,4,6-Trinitrotolusne	84.20			8.800	7.410	U
		LW12	07/23/92	\$	2,4,6-Trinitrotoluene	86.02		•	8.800	7.570	U
		LW12	07/12/92	8	2,4,6-Trinitrotoluone	8.25			8.800	7.590	U
		LW12	07/12/92	8	2,4-Dinitretolusne	87.80			1.230	1.080	U
		LW12	07/23/92	8	2,4-Dinitrotoluone	83.03			9.860	8.170	U
		LW1S	07/12/92	8	2,4-Binitrotolusne	84.76			9.840	8.340	U
		LW12	07/12/92	8	2,4-Dinitrotoluone	86.89			9.840	8.550	U
		LW12	07/12/92	8	2-Mitrotolumne (TIC)	72.08			0.530	0.382	U
		LIMIS	07/12/92	8	2-Mitrotoluene (TIC)	85.09			22.88 0	19.400	U
		LM13	07/23/92	8	2-Hitrotoluene (TIC)	86.84			22.800	19.800	U
		LW12	07/12/92	8	2-Hitrotoluene (TIC)	91.23			22.800	20.800	U
		LW12	07/12/92	\$	2-Mitrotoluone (TIC)	97.81			45.600	44.600	U
		LW12	07/12/92	\$	Hitrobenzene	87.91			3.060	2.690	U
		rn15	07/12/92	\$	Mi trebensene	87.76			24.500	21.500	U
		LW12	07/12/92	\$	Mitrobenzone	87.80			24.500	22.000	ŧ
		ra15	07/23/92	\$	Hi trebenzene	93.47			24.500	22.900	t
		rais	07/12/92	8	Cyclenite (RDX)	90.18			1.100	0.992	
		LW12	07/12/92	8	Cyclenite (RBX)	88.51			8.790	7.700	
		LW12	07/12/92	8	Cyclenite (RBK)	89.87			8.790	7.900	
		LWIZ	07/23/92	8	Cyclenite (RBK)	94.45			8.790	0.320	

Notes for Date Flags: 1 = Results loss than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently cortified, X = Analyte recovery outside of certified range but within acceptable limits

4 C- 18

Temple-Horsh Phase I AFI Standard Matrix Sample Results

V	

b	Lot	Test Nethed	Analysis Date	Test	Chesifeet Name	Result (%)	Peta Flags	Deta Qualifiers	Spiked Conson.	Concen.	Uni
 3	2104	LU12	07/24/92	8	1,3,5-Trinitrebensene	50.70			1.150	0.583	UE
		LW12	07/34/92	\$	1,3,5-Trinitrebungane	81.87			9.220	7.550	UE
		LV12	07/24/92		1,3,5-Trinitrobengene	65.90	•		9.220	7.920	U
		LU12	07/24/92	\$	2.4.6-Trinitrotolume	69.55		•	1.100	0.765	u
		LW12	07/24/92	\$	2,4,6-Trinitretelume	79.95	•	•	8.800	7.000	U
		LW12	07/24/92	5	2,4,6-Trinitrotelume	82.84			8.800	7.290	U
		LW12	07/24/92	S	2,4-Dinitrotoluone	70.33			1.230	0.865	U
		LW12	07/24/92	S	2,4-Dinitrotolusne	80.39			9.840	7.910	U
		LW12	07/24/92	S	2.4-Dinitrotolume	80.79			9.840	7.950	u
		LW12	07/24/92	\$	2-Mitrotolume (TIC)	105.46			0.530	0.560	U
		LW12	07/24/92	•	2-Hitrotolume (TIC)	95.61			22.800	21.800	U
		LU12	07/24/92	3	2-Hitrotolume (TIC)	96.05			22.800	21.900	U
		LW12	07/24/92	•	2-Hitrotolume (TIC)	98.46			45.600	44.900	Ū
		FA15	07/24/92	•	Nitrobensene	86.27			3.060	2.640	Ü
		LW12	07/24/92	•	Mitrobenzene	91.43			24.500	22.400	Ü
		TA15	07/24/92	•	Kitrobensene	92.45			24.500	22.700	Ū
		LW12	07/24/92	•	Cyclenite (RDX)	• 96.36			1.180	1.060	i
		LV12	07/24/92	Š	Cyclenite (RBX)	91.47			8.790	8.040	i
		TA15	07/24/92	\$	Cyclenite (RBX)	91.58			8.790	8.050	i
	210	LW12	07/25/92	\$	1.3.5-Trinitrobenzone	15,30			1.150	0.176	
		LW12	07/25/92	8	1,3,5-Trinitrobengene	66.92			9.220	6.170	
		LW12	07/31/92	\$	1,3,5-Trinitrebengene	67.48			9.220	6.240	V
		LLIS	07/25/92	•	1,3,5-Trinitrobenzene	79.28			9.220	7.310	
		LW12	07/25/92	•	2,4,6-Trinitrotelume	60.73			1.190	0.468	
		rais	07/25/92	•	2.4.6-Trinitretelusne	84.25			8.800	7.590	_
		LW12	07/25/92	\$	2.4.4-Trinitrotelume	90.23			8.800	7.940	
		LW12	07/31/92	•	2.4.6-Trinitrotalume	90.48			8.800	7.980	
		LW12	07/25/92	Š	2.4-Dinitrotoluene	72.11			1.230	0.867	
		LW12	07/25/92	•	2,4-Dinitrotolume	86.48			9.840	8.510	
			07/25/92	•	2,4-Dinitrotoluene	87.70			9.840	8.430	
		LW12	07/31/92	\$	2.4-Dinitrotolume	89.13			9.840	8.770	
		LIMIZ		-	2-Hitrotolume (TIC)	87.55			0.530	0.464	
		FMJS	07/25/92	\$	2-Hitrotolume (TIC)	91,67			22.800	20.900	
		LW12	07/25/92						22.800	20.900	
		LW12	07/25/92	\$	2-Hitrotolumne (TIC) 2-Hitrotolumne (TIC)	91.47 95.18			22.800	21.700	
		LW12	07/31/92	\$	•				45.600	44.400	
		LW12	07/25/92	\$	2-Hitrotoluene (TIC)	97.81				2.860	
		LV12	07/25/92	\$	Hi trabancore	95.46			3.940 24.500	24.300	
		LW12	07/25/92	8	Hitrobengene	99.18					-
		LW12	07/25/92	8	Ni trabangana	99.99			24.500	24.400	
		FA15	07/31/92		Hitrabansone	103.27			24.500	25.300	
		LW12	07/25/92		Cyclenite (RDX)	74.00			1.100	0.814	
		LW12	07/31/92	8	Cyclenite (RBX)	92.61			8.790	8.140	
		LW12	07/25/92		Cyclenite (RDX)	93.17			8.790	8.190	
		LV12	07/25/92	8	Cyclenite (NOK)	104.78			6.790	9.210	•
3	2110	LW13	07/34/92	\$	1,3,5-Trinitrobensone	34,52			1.190	0.430	
		raus	07/24/92		1,3,5-7rinitrebungane	70.72			7.220	4.530	
		MIS	W/34/92		1,3,9-Trinitrebensone	76.57			7.220	7.00	
		FRIS	07/24/92		2,4,6-Trinitrotelume	72.27			1.100	0.79	
		FA15	07/24/92		2,4,6-Trinitrotolume	85.16			8.000	7.33	_
		MAS	07/24/92		2.4.6-Trinitretelume	65.44			0.000	7.34	

Hotes for Bota Flags: 1 = Results less than CRL but greater than CRD, R = Analyte required for reporting purposes but not currently certified, X = Analyte resovery autide of certified range but within acceptable limits

Tocele-North Phase I RFI Standard Matrix Sample Results

ab de	Let	Test Hethed	Analysis Date	QC Test	Chemical Here	Result (%)	Dete Flags	Deta Qualifiers	Spiked Concen.	Consen.	Uni
5	ZHO	LW12	07/24/92	\$	2,4-Dinitrotolume	79.11			1.230	0.973	UG
		LW12	07/24/92	\$	2,4-Dinitrotoluene	83.54			9.840	8.220	UE
		LW12	07/24/92	\$	2,4-Dinitrotoluene	85.47			9.848	8.410	U
		LW12	07/24/92	\$	2-Hitrotoluene (TIC)	84.72			0.530	0.449	U
		LW12	07/24/92	S	2-Witroteluene (TIC)	91.67			22.800	20.900	U
		LW12	07/24/92	\$	2-Hitrotolusne (TIC)	95.42			22.800	21.300	U
		LW12	07/24/92	\$	2-Mitratoluene (TIC)	91.67			45.600	41.800	u
		LW12	07/24/92	\$	Ni trobanzane	88.89			3.940	2.720	u
		LW12	07/24/92	\$	N i trobenzene	89.39			24.500	21.900	U
		LW12	07/24/92	S	Mitrobensene	89.80			24.500	22.000	U
		LU12	07/24/92	\$	Cyclonite (RDX)	74.36			1.100	0.818	U
		LW12	07/24/92	S	Cyclonite (RDX)	91.47			8.790	8.040	U
		LW12	07/24/92	\$	Cyclonite (RDX)	92.83			8.790	8.160	u
8	ZNS	LW12	07/30/92	\$	1,3,5-Trinitrobenzene	72.17			1.150	0.830	U
		LW12	07/30/92	\$	1,3,5-Trinitrobenzene	82.54			9.220	7.610	U
		LU12	07/30/92	8	1,3,5-Trinitrobenzene	87.42			9.220	8.060	U
		LW12	07/30/92	8	2,4,6-Trinitrotoluene	88.09			1.100	0.969	U
		LW12	07/30/92	8	2,4,6-Trinitrotoluene	93.75			8.800	8.250	u
		LW12	07/30/92	\$	2,4,6-Trinitretoluene	96.70			8.800	8.510	
		LW12	07/30/92	\$	2,4-Dinitrotoluene	84.55			1.230	1.040	
		LW12	07/30/92	8	2,4-Dinitrotolume	84.15			9.848	8.280	
		LW12	07/ 30/9 2	\$	2,4-Dinitrotoluene	84.35			9.840	8.30 0	
		FM15	07/30/92	\$	2-Nitrotoluene (TIC)	91.13			0.530	0.483	
		LW12	07/30/92	\$	2-Nitrotoluone (TIC)	89.91			22.800	20.500	
		LV12	07/30/92	5	2-Nitretoluene (TIC)	91.67			22.800	20.900	
		LW12	07/30/92	\$	2-Nitretoluene (TIC)	95.61			45.600	43.600	
		LW12	07/30/92	\$	Hitrobenzene .	91.18			3.060	2.790	
		LW12	07/30/92	\$	Ki trobenzene	89.80			24.500	22.000	
		LW12	07/30/92	\$	Hitrobenzene	90.61			24.500	22.200	
		LU12	07/30/92	\$	Cyclenite (RDX)	93.44			1.100	1.030	
		LW12	07/30/92	\$	Cyclenite (RDX)	45.89			8.790	7.550	
		LW12	07/30/92	\$	Cyclenite (RDX)	88.74			8.790	7.800	u
3	ZNT	LW12 LW12	07/31/92 07/31/92	\$ \$	1,3,5-Trinitrobungene	78.41			1.150	0.904	
		LW12	07/31/92	\$	1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene	88.18 93.17			9.220	8.130	
		LÜ1Z	07/31/92	•	2,4,6-Trinitretaluene	87.73			9,220 1,100	8.590	
		LV12	07/31/92	•	2.4.6-Trinitretoluse	98.64			8.800	0.965	
		LV12	07/31/92	•	2.4.6-Trinitretoluene	99.55			8.800	8.680	_
		rais	07/31/92	•	2,4-Dinitrotelume	83.74			1.230	8.760 1.030	-
		LWIZ	07/31/92	•	2.4-Dinitratelume	92.17			9.840	9.070	
		FR15	07/31/92	•	2,4-Dinitrotolume	92.48			9.840	9.100	
		rn15	07/31/92	\$	2-Hitroteluene (TIC)	5.28			0.536	0.452	
		LW12	07/31/92	\$	2-Hitrotolume (TIC)	96.49			22.800	22.000	
		rais	07/31/92	•	2-Hitrotolume (TIC)	96.93			22.800	22.100	_
		rnus	07/31/92	•	2-Hitratelume (TIC)	99.34			45.600	45.300	
		LW12	07/31/92	•	Hitrabangane	88.89			3.060	2.720	-
		LW12	07/31/92	•	Hi trabanzana	95.10			24.500	23.300	
		FM15	07/31/92	•	Hitrobensone	97.55			24.500	23.900 23.900	
		LW15	07/31/98	•	Cyclenite (RSK)	71.18			1.100	0.783	
		LW12	07/31/92	•	Cyclenite (RSK)	87.49			8.790	7,600	
		LIMIZ	07/31/92		Cyclenite (RBK)	67.49			8.790	7.600	

Notes for Data Flage: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently cortified, X = Analyte recovery outside of certified range but within acceptable limits

APPRINTE C-18

Tocolo-Herth Phase 1 RFI Standard Matrix Sample Results



No.	Lot	Nethed	Date	Test	Chamical Hane	(%)	Plags	Qualifiers	Concen.	Concen.	unit
3	ZWV	raus.	06/06/92	s	1,3,5-Trinitrobensore	65.22			1.150	0.900	UGE
		LU12	00/06/92	8	1,3,5-Trinitrobenzene	84.06			9.220	7.750	UGG
		LV12	08/06/92	8	1,3,5-Trinitrobermene	85.64			9.220	7.900	UGG
		LU12	06/06/92	\$	2,4,6-Trinitrotolume	91.62			1.100	1.018	UGG
		LW12	06/06/92	\$	2,4,6-Trinitrotolume	94.43			8.800	8.310	UGC
		FM15	08/06/92	\$	2,4,6-Trinitreteluune	94.43			8.800	8.310	UGG
		LW12	08/09\45	\$ -	2,4-Dinitretolume	86.99			1,230	1.070	UGG
		ra15	08/06/92	\$	2,4-Binitrotoluene	86.11			9.840	8.670	UCC
		LV12	08/06/92	\$	2,4-9 initrotoluene	90.14			9.840	8.870	UGE
		LW12	08/06/92	8	2-Hitrotoluone (TIC)	81.13			0.530	0.430	UGG
		LW12	08/06/92	\$	2-Hitrotoluene (TIC)	91.67			22.800	20.900	UGG
		rais	08/06/92	\$	2-Mitroteluene (TIC)	%.30			22.800	21.500	UGG
		LW12	08/06/92	8	2-Hitrotoliume (TIC)	100.00			45.600	45.600	UGG
		LW12 LW12	08/06/92	\$ \$	Ni trobanzone Ni trobanzone	90.52 94.29			3.060	2.770	UGG
		LU12	08/06/92	•	Nitrobungano	94.29			24,500	25.100	UGG
		LW12	08/06/92	•	Cyclenite (NEK)	71.36			24 .50 0 1.100	23.100 0.785	UGG
		LW12	08/96/92	•	Cyclenite (MDX)	8.3			8,790	7.520	USE
		LW12	06/06/92	\$	Cyclenite (MMX)	80.20			8,790	7.760	UGI
S	ZIOX	LW12	07/29/92	8	1,3,5-Trinitrebensone	80.78			1,150	0.929	
		LW12	07/29/92	8	1,3,5-Trinitrebensone	87.74			9,220	8.090	
		LU12	07/29/92	8	1,3,5-Trini trobensene	86.29		•	9.220	8.140	USE
		CM15	07/29/92	8	2,4,6-Trinitretoluene	90.64			1.100	0.997	UGG
		CMIS	07/29/92	8	2,4,6-Trinitroteluene	97.54			8.800	8.610	ver
		LUIZ	07/29/92	\$	2,4,6-Trinitretoluene	99.20			8.800	8.730	UC
		TN15	07/29/92	8	2,4-9initrotoluene	86.18			1.250	1.060	UCC
		rais	07/29/92	8 .	2,4-Bini tretaluene	92.38			9.840	9.090	UGE
		FR15	07/29/92	8	2,4-Binitreteluene	12.38			9.840	9.090	UGG
		TN15	07/29/92	8	2-Hitrotolume (TIC)	85.28			0.530	0.452	UGE
		ra15	07/29/92	8	2-Hitrotoluone (TIC)	. 90.35			22.800	20.400	UEK
		FAIS	07/29/92	8	2-Hitrotoluane (TIC)	12.96			22.800	21.200	UÇE
		FM15	07/29/92	8	2-Bitroteluene (TIC)	%.65			45.400	44.200	UDE
		LMIS	07/29/92	8	Ni trebengene	90.85			3.060	2.780	UQE
		FM15	07/29/92	\$ \$	Ni trobumane Ni trobumane	97.55		_	24.500	23.900	UBG
		FN15 FN15	07/29/92	•	Cyclenice (RDK)	97.96 74.45		-	24.500	24.000	UNI
		FA45	67/29/92	•	Cyclenite (ADX)	74.45 88.74			1.100	0 .219 7 .200	UBI
		rnıs	07/29/92	8	Cyclenite (MIK)	90.10			8.790	7.920	_
\$	ZHZ	CM15	06/11/92	. \$	1,3,5-Trini trabangana	49.48			1.150	0.349	Uti
		LWIZ	08/05/92	\$	1,3,5-Trinitrebenesee	25.25			7.220	7.940	
		LIVIZ	06/05/92	8	1,3,5-Trinitrebensene	86.88			7.220	8.810	
		FMIS	08/11/92	8	2,4,4-Trinitroceluses	77.91			1.100	0.857	
		CMIS	08/65/92	8	2,4,6-Trinitresoluene	95.00			8.800	8.430	
		rw15	08/65/72	8	2,4,6-Trinitrotolueno	97.16			0.000	4.596	
		rnus	00/11/92	8	2,4-Dinitrotoluone	78.21			1.230	0.942	
		MIS	00/05/72	8	2,4-Dinitrotaluane	90.36			7.840	8.880	
		MIS	06/65/92		2,4-9initrotolusno	99.26			7.840	8.880	
		mus.	00/11/92	\$	2-Hitrotolume (TIC)	70.57			0.530	9.374	
		rais rais	06/05/12 06/05/12	8	2-Hitrotolusme (TIC) 8-Hitrotolusme (TIC)	101.32			22.80 22.80	22.900 23.100	

Hotes for Bota Flagus 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but - >t ourrently cortified, X = Analyte recovery outside of cortified range but within acceptable limits

Topele-Horth Phase I RFI Standard Matrix Sample Results

	Lot	Test Hethod	Analysis Date	QC Test	Chemical Hemo	Result (X)	Deta Flags	Data Qualifiers	Spiked Concen.	Recovered Concen.	Unit
8	ZNZ	LW12	08/05/92		2-Mitrotolume (TIC)	97.81			45.400	44.600	UGE
•	-	CM15	08/11/92	•	Nitrebenzene	90.20			3.060	2.760	UG
				-			_				
		LU12	08/05/92		Ni trobanzana	95.47	•		24.500	22.900	UGI
		TA15	08/05/92	8	Ni trobanzone	95.92			24.500	23.500	UG
		LV12	08/11/95.		Cyclegite (RDX)	74.45	•		1.100	0.819	UG
		LW12	08/05/92	\$	Cyclenite (RDX)	84.98			8.790	7.470	
		LW12	08/05/92	\$	Cyclonite (RDX)	89.42			8.790	7.860	UC
6	ZIC	JD 19	07/11/92	\$	Arsenic	131.85			0.496	0.654	UG
		JD 19	07/11/92	\$.	Arsenic	101.03			7.790	7.870	UG
		JD19	07/11/92	• \$	Arsenic	102.39			7.940	8.130	UG
\$	ZID	JD19	07/16/92	s	Arsenic	128.02			0.489	0.626	UG
		JD19	07/16/92	S	Arsenic	108.52			7.510	8.150	UG
		JD19	07/16/92	S	Arsenic	96.79			7.790	7.540	UG
\$	ZIE	JD19	07/15/92	\$	Arsenic	136.09			0.496	0.675	UG
		JD19	07/15/92	\$	Arsenic	106.96			7.620	8.150	UG
		JD19	07/15/92	S	Arsenic	102.86			7.700	7.920	UG
6	ZIF	JD19	07/20/92	3	Arsenic	125.89			6.479	0.403	UG
•	211				··· + -·· -						
		JD19 JD19	07/ 20/92 07/ 20/92	\$ \$	Arsenic Arsenic	196.75 105.75			7.700 7. 83 0	8.220 8.2 9 0	UE
				_	A						
8	ZIJ	JD19	07/17/92	\$	Arsenic	129.85			0.449	0.609	UG
		JD 19	07/17/92	\$	Arsenic	113.86			7.790	8.870	UE
		JD19	07/17/92	\$	Arsenic	114.16			7.840	8.950	UG
3	ZIL	JD19	07/29/92	\$	Areenic	133.89			0.481	0.644	UE
		JD 19	07/ 29/9 2	\$	Arsenic	105.29			7.560	7.960	UE
		JD19	07/29/92	\$	Arsenic	109.51			7.570	8.290	UE
3	ZIM	JD19	08/08/92	\$	Arsenic	128.01			0.482	0.617	UE
		J019	08/08/92	8	Areenic	101.28			7.820	7.920	u
		JD19	06/06/92	8	Areenic	103.14			7.950	8.200	U
3	ZIP	JD19	08/10/92	8	Arsenic	123.74			0.476	0.589	UE
		JD19	08/10/92	\$	Araonic	107.15			7.490	8.240	U
		JD19	06/10/92	8	Areenic	112.17			7.970	8.940	U
3	Z1Q	JD19	08/17/92	\$	Arsenic	126.67			0.491	0.619	Į jai
		JD19	08/17/92	•	Arsenic	100.77			7.770	7.830	
		JD19	08/17/92		Areenic	101.93			7.790	7.940	
ì	ZIR	JD 19	08/18/92	8	Arounic	126.12			8.490	A 4+4	
•		.D19		•		106.16				0.618	
		217	00/10/72	_	Areenic Areenic	106.45			7.310 7.520	7.768 8.020	
ı .	217	.D19	09/20/92	8	Araenis	137.96					
•	41 V	.D17	06/26/98	•		185.99			0.495	0.483	
		211			Aroenic Aroenic	107.27			7.516 7.570	7.960 8.120	
			•								_

Hotes for Bots Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently certified, X = Analyte recovery outside of certified range but within acceptable limits

APPENDIX C-16

Toosie-Herth Phase I RFI Standard Motrix Sample Recuits

Lab	Let	Test Nethed	Analysis Date	OC Test	Chemical Name	Regult (%)	Deta Flass	Deta Qualifiers	Spiked Consen.	Recevered Concen.	Unit
ES	ZIY	JD 19	09/15/92	\$	Arsenic	108.71			7.810	8.490	UGG
		JD 19 -	09/15/92	8	Areenic	107.97			7.900	8.530	USS
ES	212	JD19	09/15/92	\$	Arsenic. **	8.82			0.492	0.437	UGG
		éra.	09/15/92	•	Arsenic	100.00			7.780	7.780	Äee
		JD19	09/15/92	\$	Arsenic	100.50			7.990	8.030	fee
Es	ZJA	J S 16	06/29/92	5	Silver	85.73			0.799	0.485	UGG
		JS16	06/29/92	\$	Silver	97.62			7.980	7.790	UGG
		J\$16	06/29/92	\$	Silver	94.75	•		8.000	7.580	UGG
		J\$16	06/29/92	8	Beryllium	100.40			4.990	5.010	UGG
		J 816	04/29/92	\$	Beryllium	99.00			49.900	49.400	UGG
		JS16	06/27/92	\$	Beryllium	98.48			50.000	49.200	UGG
		J 816	06/29/92	\$	Cadnium	100.20			4.990	5.000	UGG
		J\$16	06/29/92	\$	Cadmium	94.99			49.900	47,400	UGG
		J S 16	06/29/92	\$	Cadnium	93.80			50.000	46.900	UGG
		J814	06/29/92	8	Chronium	104.10			9.990	10.400	nee
		J\$16	06/29/92	8	Chronium	95.40			99.800	95.500	UGG
		J\$16	06/29/92	\$	Chronium	94.50			100.000	94.500	UGG
		J816	06/29/92	\$	Copper	99.40			4.990	4.960	UGG
		J816	06/29/92	\$	Copper	97.60			49.900	48.700	
		J\$16	06/29/92	\$	Copper	97.00			50.000	48,500	
		J816	06/29/92	\$	Mickel	99.40			4.990	4.960	
		J S16	06/29/92	5	Nickel	94.39			49.900	47.100	UNG
		1216 121	04/29/92	\$ \$	Nickel Thellium	94.20 104.10			50.000	47.100	UGG
		JS16	06/29/92	\$	Thellium	96.09			9.990 99.800	10.400 95.900	UGG
		JS16	06/29/92	•	Thellium	94.30			100.000	94.300	UGG
		J\$16	06/29/92	Š	Zinc	96.60			9.990	9.450	UGG
		JS16	06/29/92	•	Zinc	93.19			99.800	93.000	UGG
		J816	06/29/92	\$	Zinc ·	93.00			100.000	93.000	UÇG
ES	ZJB	J816	06/29/92	\$	Silver	116.41			0.768	0.894	UGG
		J E 16	06/29/92	\$	Silver	93.53			7.730	7.230	UGG
		JE16	06/29/92	8	Silver	94.71			7.750	7.340	UGG
		J\$16	06/29/92	8	Beryllium	106.67			4.800	5.120	UGE
		J\$16	06/29/92	8	Beryllium	95.24			48.300	44.000	UQG
		J816	06/29/92	8	Beryl I ium	95.87			48.400	44.400	UQC
		J816	06/29/92	\$	Cadinium	96.54			4.800	4.730	UBG
		J816	06/29/92	8	Codnius	90.48			48.300	43.790	UQE
		J816	06/29/92	\$	Codnium	92.15			48.400	44.600	UDG
		J816	06/29/92	8	Chrenium	102.50			7.600	9.840	
		J S 16	06/29/92	8	Chrenius	91.41			76.600	86.300	
		J216 J216	06/29/92	\$ \$	Chronium	91.53 100.00			76.800	88.600	
		J816	06/29/92	•	Copper Copper	95.17			4.800	4.800	
		JS16	06/29/92	•	Copper	75.17 75.60			48.300 48.400	45.000 45.300	
		JS16	06/29/92	i	Highet	102.71			4.800	4.190	
		J516	04/29/92	•	Michel	86.62			48.300	42.700	
		J816	06/20/72	i	Hickot	90.91			48.440	44,000	
		JE16	04/29/72	•	Theilium	86.46			7.400	8.300	
		J516	04/29/92	8	Thellium	92.95			76.400	89,40	
		JE16	06/20/92	\$	Thellium	86.95			76.000	86.10	

Notes for Bots Flags: 1 = Results loss than CRL but greater than CRD, R = Analyte required for reporting purposes but not surrently cortified, X = Analyte recovery outside of cortified range but within acceptable limits

Tooele-North Phase I RFI Standard Matrix Sample Results

Lab	Lot	Test Nethod	Analysis Date	QC Test	Chemical Name	Result (%)	Data Flags	Data Qualifiers	Spiked Concen.	Recovere Concen.
Es	ZJB	JS16	06/29/92	\$	Zinc	96.35			9.600	9.25
•	240	J\$16	06/29/92	5	Zinc	90.27			96.600	87.20
		J\$16	06/29/92	S	Zinc	90.29			96.800	87.40
S	ZJC	JS16	06/30/92	s	Silver	94.57			0.774	0.73
_		J\$16	06/30/92	S	Silver	92.28			7.510	6.93
		J\$16	06/30/92	5	Silver	94.62			7.620	7.21
		J\$16	06/30/92	S	Beryllium	101.03			4.840	4.89
		J\$16	06/30/92	S	beryllium	96.60			47.000	45.40
		JS16	06/30/92	S	Servilium	98.11			47.600	46.70
		JS16	06/30/92	\$	Cadnium	96.90			4.840	4.69
		JS16	06/30/92	S	Cadnium	92.34			47.000	43.40
		J\$16	06/30/92	\$	Cadmium	93.91			47.600	44.70
		J\$16	06/30/92	\$	Chromium	99.17			9.670	9.59
		J\$16	06/30/92	\$	Chromium	91.59			93.900	86.00
		J\$16	06/30/92	\$	Chromium	93.60			95.300	89.20
		J\$16	06/30/92	S	Copper	98.14			4.840	4.75
		J\$16	06/30/92	\$	Copper	94.47			47.000	44.40
		J\$16	06/30/92	5	Copper	96.01			47.600	45.70
		J\$16	06/30/92	\$	Nickel	106.20			4.840	5.14
		J\$16	06/30/92	S	Nickel	90.43			47.000	42.50
•		J\$16	06/30/92	S	Nickel	91.60			47.600	43.60
		J\$16	06/30/92	S	Thattium	97.72			9.670	9.4
		J\$16	06/30/92	S	Thattium	91.16			93.900	85.6
		J\$16	06/30/92	\$	Thattium	95.07			95.300	90.6
		J\$16	06/30/92	S	Zinc	106.58			9.670	10.50
		J\$16	06/30/92	8	Zinc	91.37			93.900	85.80
		J\$16	06/30/92	S	Zinc	92.97			95.300	88.60
\$	ZJD	JS16	07/01/92	s	Silver	91.88			0.800	0.73
		J\$16	07/01/92	S	Silver	91.60			7.980	7.3
		J\$16	07/01/92	S	Silver	91,99			7.990	7.35
		J S 16	07/01/92	\$	Seryllium	103.60			5.000	5.18
		J S 16	07/01/92	S	Seryllium	98.40			49.900	49.10
		JE16	07/01/92	\$	Beryllium	99.00			49.900	49.4
		J\$16	07/01/92	\$	Cadnium	100.00			5.000	5.00
		J\$16	07/01/92	\$	Cadmium	94.99			49.900	47.4
		J \$ 16	07/01/92	\$	Caditium	94.99			49.900	47.40
		J\$16	07/01/92	\$	Chronium	1 03.0 0			10.000	10.30
		J\$16	07/01/92	\$	Chronium	93.68			99.700	93.4
		J\$16	07/01/92	\$	Chromium	94.09			99.900	94.0
		J\$16	07/01/92	\$	Copper	97.80			5.000	4.8
		J\$16	07/01/92	\$	Copper	94.99			49.900	47.4
		J 8 16	07/01/92	\$	Copper	95.19			49.900	47.5
		J\$16	07/01/92	\$	Nickel	90.60			5.000	4.5
		JE16	07/01/92	\$	Nickel	90.78			49.900	45.3
		J816	07/01/92	\$	Nickel	92.18			49.900	46.0
		J S 16	07/01/92	\$	Theilium	104.00			10.000	10.4
		J S 16	07/01/92	\$	Thailium	94.18			99,700	93.9
•		J\$16	07/01/92	\$	Thattium	97.20			99.900	97.1
		J\$16	07/01/92	\$	Zinc	119.00			10.000	11.9
		J216	07/01/92	\$	Zinc	95.19			99.700	94.9
		J\$16	07/01/92	2	Zinc	96.10			99.900	96.0

Notes for Data Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not curried cortified, X = Analyte recovery outside of certified range but within acceptable limits

APPROXISE 0-16

Tocals-North Phase I RFI Standard Matrix Sample Regults

		A 15.00
	Baines 35	
٠,		· -
	1	

Lab	Lot	Test Hethed	Analysis Date	QC Test	Chemical Name	Result (%)	Data Flags	Octa Qualifiers	Spiked Concen.	Concen.	Unit
ES	ZJF	J\$16	07/02/92	\$	Silver	86.38			0.800	9.707	UG
		J\$16	07/02/92	8	Silver	92.61			7.980	7.390	uec
		J S 16	07/02/92	8	Silver	94.62			7.990	7.540	UGG
		JS16	07/02/92	\$	Beryllium	101.20			5.000	5.060	UGS
		J816	07/02/92	\$	Beryllium	95.59			49.900	47.700	UGG
		J\$16	07/02/92	\$	Beryllium	96.80			50.000	48.400	UGG
		J\$16	07/02/92	\$	Codnium Codnium	98.20 91.58			5.000	4.910	UEG
		J\$16	07/ 02/9 2 07/ 02/9 2	\$ \$	Cadnium	92.48			49.900	45.700	UGG
		J S 16 J S 16	07/02/92	\$	Chronium	98.00			50.000 10.000	46.200 9.800	UGS
		J\$16	07/02/92	Š	Chromium	91.48			99.800	91.500	UGG
		J S 16	07/02/92	Š	Chronium	92.69			99.900	92,600	UGG
		J816	07/02/92	S	Copper	93.40			5.000	4.670	UGG
		J\$16	07/02/92	S	Copper	93.99			49.900	46.990	UGG
		J\$16	07/02/92	\$	Copper	95.00			50.000	47.500	UEG
		J\$16	07/02/92	\$	Nickel	101.60			5.000	5.000	UGG
		J\$16	07/02/92	\$	Hickel	90.38			49.900	45.100	ues
		J\$16	07/02/92	\$	Nickel	91.40			50.000	45.700	ugs
		J S 16	07/02/92	\$	Thellium	115.00			10.000	11.500	UGG
		J\$16	07/02/92	\$	Thattium	93.89			99.800	93.700	1
		J\$16	07/02/92	\$	Thellium	92.19		•	99.900	92.100	
		JS16	07/02/92	\$	Zinc	102.00			10.000	10.200	
		J\$16	07/02/92	\$	Zinc	91.48			99.800	91.300	
		J 816	07/02/92	\$	Zinc	92.49			99.900	92.600	ucc
ES	ZJN	J\$16	07/09/92	\$	Silver	104.76			0.798	0.836	ucc
		J\$16	07/09/92	S	Silver	96.12			7.990	7.680	UGG
		J\$16	07/09/92	\$	Silver	96.25			8.000	7.700	UGG
		J\$16	07/09/92	S	Beryl Lium	105.41			4.990	5.260	UGG
		J\$16 J\$16	07/09/92 07/09/92	S S	Seryilium Beryllium	99.00 100.60			49.900 50.000	49.400 50.300	UGG UGG
		J\$16	07/09/92	S	Cadaium	101.20			4.990	5.050	
		J\$16	07/09/92	s	Cadhium	94.19			49.900	47.000	UGG
		JS16	07/09/92	5	Cadnium	96.20			50.000	48.100	
		J\$16	07/09/92	\$	Chronium	103.21			9.980	10.300	
		J\$16	07/09/92	\$	Chronium	94.39			99.900	94.300	UGS
		J\$16	07/09/92	\$	Chronium	96.60			100.000	96.600	
		J\$16	07/09/92	\$	Copper	110.82			4.990	5.530	UGG
		J\$16	07/09/92	\$	Copper	96.79			49.900	48.300	UGG
		J\$16	07/09/92	\$	Copper	99.40			50.000	49.700	UGE
		J\$16	07/09/92	\$	Nickel	89.38	•		4.990	4.440	UGG
		J216	07/09/92	\$	Nickel	90.78			49.900	45.300	UCG
		J216	07/09/92	\$	Hickei	92.80			50.000	46.400	
		J816	07/09/92	\$	Thellium	104.21			7.900	10.400	
		JE16	07/09/92	\$	Thellium	93.79			99.900	93.700	
		J816	07/09/92	8	Thellium	96.40			100.000	96.400	
		J816	07/09/92		Zine	126.25			7.900	12.600	
		J516 J516	07/09/92	\$	Zinc	95.10			97.900	95.000	
		47 IĐ	07/09/92	\$	Zine	197.00			100.900	167.000	
	ZJI	J816	07/14/92	\$	Silver	91.61			0.799	0.732	
		J816	07/14/92	8	Silver	W.36			7.800	7.340	A STATE OF THE STA

Notes for Data Flage: 1 = Results less than CRL but greater than CSD, R = Analyte required for reporting purposes but not ourrantly cortified, X = Analyte recovery outside of certified range but within acceptable limits

Topele-North Phase 1 RF1 Standard Matrix Sample Results

	1	Test	Analysis	QC Test	Phonical Mana	Result	Data	Deta Cunidian	Spiked	Recevered	
	Lot	Hethod	Date	Test	Chemical Hene	(%)	Flags	Qualifiers	Concen.	Consen.	Uni
;	ZJI	J\$16	07/14/92	S	Silver	94.27			7.860	7.410	UE
		J816	07/14/92	\$	Beryllium	110.42			4.990	5.510	U
		J216	07/14/92	\$	Beryllium	101.43			48.800	49.500	u
		J 21 6	07/14/92	\$	Beryllium	99.59			49.100	48.900	U
		J\$16	07/14/92	S	Cadnium	100.00			4.990	4.990	U
		J\$16	07/14/92	\$	Cadmium	? 96.11			48.800	46.900	Ų
		J 216	07/14/92	S	Cadmi un	94.50			49.100	46.400	U
		J \$16	07/14/92	S	Chronium	97.39			9.980	9.720	U
		J\$16	07/14/92	5	Chromium	95.59			97.500	93.200	U
		J\$16	07/14/92	S	Chromium	93.39			98.300	91.800	U
		J\$16	07/14/92	S	Copper	98.40			4.990	4.910	U
		J\$16	07/14/92	S	Copper	99.18			48.800	48.400	U
		J\$16	07/14/92	S	Copper	97.35			49.100	47.800	U
		J\$16	07/14/92	S	Nickel	91.58			4.990	4.570	ŧ
		J S 16	07/14/92	S	Nickel	94.47			48.800	46.100	U
		J216	07/14/92	8	Nickel	91.85			49.100	45.100	U
		J\$16	07/14/92	\$	Thattium	112.22			9.980	11.200	U
		J\$16	07/14/92	S	Thellium	92.82			97.500	90.500	·
		J\$16	07/14/92	\$	Thattium	90.95			98.300	89.400	Ļ
		J\$16	07/14/92	5	Zinc	120.24			9.980	12.000	U
		J216	07/14/92	\$	Zinc	95.90			97.500	93.500	Ĺ
	J\$16	07/14/92	\$	Zinc	94.20			98.300	92.600	U	
,	2JK	J\$16	07/14/92	\$	Silver	108.90			0.798	0.869	ŧ
		J S 16	07/14/92	\$	Silver	94.36			7.980	7.530	L
		J\$16	07/14/92	\$	Silver	95.13			8.000	7.610	ŧ
		J216	07/14/92	\$	Seryllium	104.01			4.990	5.190	
		J\$16	07/14/92	S	Seryllium	98.00			49.900	48.900	ŧ
		J\$16	07/14/92	S	Beryllium	98.40			50.000	49.200	
		J\$16	07/14/92	S	Cadhiun	101.80			4.990	5.080	ı
		J\$16	07/14/92	\$	Cadmium	94.19			49.900	47.000	(
		J\$16	07/14/92	S	Cadmium	93.80			50.000	46.900	(
		J\$16	07/14/92	S	Chronium	103.31			9.970	10.300	1
		J\$16	07/14/92	\$	Chronium	93.29			99.800	93.100	- (
		J\$16	07/14/92	\$	Chronium	93.40			100.000	93.400	(
		JE16	07/14/92	\$	Copper	93.19			4.990	4.650	1
		J 21 6	07/14/92	\$	Copper	95.19			49.900	47.500	
		J516	07/14/92	\$	Copper	95.40			50.000	47.700	- {
		J S 16	07/14/92	8	Hickel	97.60			4.990	4.870	(
		J S 16	07/14/92	S	Hickel	92.38			49.900	46.100	
		J\$16	07/14/92	\$	Hickel	92.80			50.000	46.400	. 1
		J\$16	07/14/92	\$	Thellium	98.80			9.970	9.850	
		J816	07/14/92	S	Thettium	95.59		•	99.800	95.400	
		J\$16	07/14/92	\$	Thellium	93.60			100.000	93.600	
		J\$16	07/14/92	8	Zinc	106.32			9.970	10.400	
		J816	07/14/92	8	Zinc	92.99			99.800	92.800	
		J816	07/14/92	8	Zinc	93.80			100.000	93.800	
}	ZJL	J\$16	07/15/92	8	Silver	111.26			0.799	0.889	, .
	·	J816	07/15/92	\$	Silver	96.11			7.930	7.780	
		J816	07/15/92	8	Silver	97.99			7.950	7.790	
		J816	07/15/92	8	Beryi Lium	104.80			5.000	5.240	
		J816	07/15/92	•	Beryl i fum	100.40			47.600	47.800	

Notes for Data Flags: 1 = Results less than CRL but greater than CCO, R = Analyte required for reporting purposes but not currently certified, X = Analyte recovery outside of certified range but within acceptable limits

MOUNTE COM

Totale-North Phase I RFI Standard Matrix Sample Results



Lab	Lot	Test Nethed	Analysis Date	QC Test	Chamical Hame	Resuit (%)	Deta Flags	Dete Qualifiers	Spiked Concen.	Recevered Concen.	Unit
ES	ZJL	J\$16	07/15/92	\$	Beryllium	102.01			49.700	50.700	UGG
		J S 16	07/15/92	\$	Codnium	103.40			5.800	5.170	UGC
	•	J\$16	07/15/92	\$	Cadaius	96.57			49.400	47.900	UEG
	•	JS16	07/15/92	S	Codefun	97.59			49.700	48,500	UGG
	•	J\$16	07/15/92	\$	Chromium	113.11			9.990	11.300	USS
		J\$16	07/15/92	\$	Chromium ?	95.26			99.100	94.400	UGG
		J\$16	07/15/92	S	Chromium	96.48		•	99.400	95.900	UGG
		J\$16	07/15/92	S	Copper	104.60			5.000	5.230	UGG
		J\$16	07/15/92	\$	Copper	97.78			49.600	48.500	UGG
		J\$16	07/15/92	S	Copper	99.80			49.700	49.600	UGG
		J\$16	07/15/92	\$	Nickel	107.80			5.000	5.390	UGG
		J\$16	07/15/92	S	Nickel	93.15			49.600	46.200	UGG
		J\$16	07/15/92	S	Nicket	94.97			49.700	47.200	UGC
		J\$16	07/15/92	\$	Thettium	126.13	-		9.990	12.600	UGG
		J\$16	07/15/92	S	Thattium	97.78			99.100	96.900	UGG
		J\$16	07/15/92	S	Theitium	97.18			99.400	96.400	UGG
		JS16	07/15/92	\$	Zinc	116.12			9.990	11.600	UGG
		J\$16	07/15/92	S	Zine	93.74			99.100	92,900	UGG
		J\$16	07/15/92	\$	Zinc	94.67			99.400	94.100	UGG
ES	ZJM	J\$16	07/17/92	\$	Silver	111.13			0.800	0.889	UGG
		JS16	07/17/92	\$	Silver	95.12			7.990	7.600	
		J\$16	07/17/92	\$	Silver	95.00			8.000	7.600	
		J\$16	07/17/92	\$	Beryllium	102.40			5.000	5.120	
		J\$16	07/17/92	8	Servitium	99.20			50.000	49.600	UBG
		J\$16	07/17/92	\$	Servilium	99.40			50.000	49.700	UGG
		J\$16	07/17/92	\$	Codnium	101.80			5.000	5.090	UGG
		J\$16	07/17/92	\$	Codeius	95.80			50.000	47,900	UGG
		J\$16	07/17/92	\$	Cadalus	96.20			50.000	48,100	UGG
		JS16	07/17/92	s	Chromium	106.00			10.000	10.600	UGG
		J\$16	07/17/92	\$	Chromium	93.59			99.900	93.500	UGG
		J\$16	07/17/92	\$	Chromium	93.10			100.000	93.100	UGG
		J316	07/17/92	\$	Copper	93.20			5.000	4.660	UGG
		J\$16	07/17/92	\$	Copper	95.60			50.000	47.800	UGS
		J\$16	07/17/92	\$	Copper	95.80			50.000	47.900	UGE
		J\$16	07/17/92	\$	Hickel	96.80			5.000	4.840	UEG
		J\$16	07/17/92	\$	Nickel	89.60			50.000	44.800	UES
		J\$16	07/17/92	\$	Nickel	92.40			50.000	46.200	UGG
		J\$16	07/17/92	\$	Thettium	85.90			10.000	8.590	200
		J816	07/17/92	\$	Theilium	99.40			99,900	99.300	uec
		J\$16	07/17/92	8	Thettium	95.40			100.000	75.400	UEE
		J816	07/17/92	8	Zinc	107.00			10.000	10.700	UGE
		J\$16	07/17/92	8	Zinc	73.29			99.900	93.200	UES
		J\$16	07/17/92	8	Zinc	93.60	•		100.000	93.400	VOG
ES	ZJQ	J\$16	07/24/92	8	Silver	103.32			0.763	0.809	UGE
		JE16	07/24/92	8	Silver	90.45			7.750	7.010	UNG
		JE16	07/24/92	8	Silver	92.23			7.980	7.340	UŞS
		JE16	07/24/92	8	Beryttius	163.89			4.890	5.000	
		J\$16	07/24/92	8	Beryttium	96.69			48.400	44.800	
		J\$16	07/24/92	8	Sorytifum	97.80			47.700	48.800	
		J816	07/24/92	8	Codnism	100.41			4.800	4.910	
		J816	07/24/92	\$	Codolum	92.77				7	

Hotes for Bota Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently cortified, X = Analyte recovery outside of cortified range but within acceptable limits

Topele-North Phase I RFI Standard Matrix Sample Results

ab	Lot	Test Hethed	Analysis Date	QC Test	Chamical Name	Result (%)	Deta Flags	Data Qualifiers	Spiked Concen.	Recevered Concen.	unic
\$	ZJQ	J\$16	07/24/92	\$	Cadnium	94.39		····	49.900	47.100	ugs
		JS16	07/24/92	\$	Chronium	103.27			9.780	10.100	uge
		J\$16	07/24/92	\$	Chromium	92.36			96.900	89.500	UCG
		J\$16	07/24/92	\$	Chronium	93.69			99.800	93.500	UGS
		J S 16	07/24/92	S	Copper	99.59			4.890	4.870	UGG
		J 31 6	07/24/92	\$	Copper	94.63			48.400	45 .80 0	UGS
		J\$16	07/24/92	\$	Copper	96.39			49.900	48.100	UCC
		J\$16	07/24/92	S	Nickel	106.13			4.890	5.190	UGE
		J\$16	07/24/92	\$	Nickel	93.18			48.400	45.100	UGG
		J\$16	07/24/92	S	Nickel	90.78			49.900	45.300	UGC
		J\$16	07/24/92	8	Thattium	118.61			9.780	11.600	UGG
		J\$16	07/24/92	\$	Thallium	95.77			96.900	92. 80 0	UGG
		J\$16	07/24/92	\$	Thallium	96.89			99.800	96.700	UGG
		J\$16	07/24/92	\$	Zinc	123.72			9.780	12.100	UGG
		J S 16	07/24/92	S	Zinc	93.09			96.900	90.200	UGG
		J\$16	07/24/92	\$	Zinc	96.39			99.800	96.200	UGG
\$	ZJ\$	J\$16	07/31/92	\$	Silver	77.09			0.790	0.409	uce
		J\$16	07/31/92	\$	Silver	94.82			7.910	7.500	UGG
		J\$16	07/31/92	\$	Silver	95.00			8.000	7.600	UGG
	-	J\$16	07/31/92	\$	Seryllium	100.20			4.940	4.950	UGG
-		J\$16	07/31/92	\$	Boryllium	98.99			49.400	48.900	UGG
		J\$16	07/31/92	\$	Beryllium	98.00			50.000	49.900	UGE
		J\$16	07/31/92	\$	Coditium	96.96			4.940	4.790	UGG
		J\$16	07/31/92	\$	Cadmium	94.74			49.400	46.800	UGE
		J\$16	07/31/92	\$	Codmium	93.80			50.000	46.900	UCG
		J\$16	07/31/92	\$	Chronium	106.28			9.880	10.500	UGG
		J\$16	07/31/92	\$	Chronium	95.55		,	96.800	94.400	UC
		J\$16	07/31/92	8	Chronium	95.40			100.000	95.400	UGG
		J\$16	07/31/92	5	Copper	95.95			4.940	4.740	UGC
		J\$16	07/31/92	S	Copper	98.58			49.400	48.700	UCC
		J\$16	07/31/92	\$	Copper	97.00			50.000	48.500	UGC
		J\$16	07/31/92	\$	Nicket	97.17			4.940	4.800	UGG
		J\$16	07/31/92	\$	Nickel	93.12			49.400	46.000	UGE
		J\$16	07/31/92	\$	Nickel	92.80			50.000	46.400	UGG
		J816	07/31/92	8	Thellium	126.52			9.880	12.500	UGG
		JS16	07/31/92	8	Thailium	100.20			76.800	99.000	UEC
		J816	07/31/92	\$	Theilium	104.00			100,000	104.000	UCC
		J\$16	07/31/92	\$	Zine	88.97			9.880	8.790	UC
		4121	07/31/92	•	Zine	94.23			98.800	93,100	
		J\$16	07/31/92	\$	Zinc	93.60			100.000	93.600	-
3	ZJT	J\$16	08/03/92	•	Silver	105.33			0.769	0.810	UÇ
		J\$16	08/03/92	8	Silver	89.96			7.970	7.170	
		J816	08/03/92	\$	Silver	94.74			7.900	7.560	
		JS16	00/03/92	8	Beryllium	101.46			4.810	4.880	_
		J816	08/03/92	8	Soryitium	96.59			49.800	49.100	
		J816	04/03/92	8	Seryilium	99.00			49.800	49.300	
		J\$16	01/05/72	8	Cadnium	99.79			4.810	4.800	
		J816	08/03/52	•	Codnius	94.78			49.800	47.200	
		J\$16	08/03/92	8	Cadnium	94.98			49.800	47.300	
		J816	08/03/92	•	Chremium	99.17			7.610	7.530	
		J816	08/03/92	•	Chronium	77.11			77.400	7.330	9

Notes for Data Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently certified, X = Analyte recovery outside of certified range but within acceptable limits

ACCOUNTS C-14

Topple-Horth Phase & RF1 Standard Matrix Symple Results

7	
	一 澳 铁 門 4 5 灣
	and the same of
	7

•	Let	Test Method	Analysis Date	ac Test	Chamical Hame	Result (%)	Data Flags	Data Qualifiers	Spiked Concen.	Recovered Concen.	Uni
<u> </u>	ZJT	J\$16	08/03/92	\$	Chremium	94.08		 	99.700	93.800	UC
		J\$16	08/03/92	\$	Copper	92.93			4,810	4.470	UC
		J\$16	08/03/92	8	Copper	95.98			49.800	47.800	UK
		J\$16	06/63/92	\$	Copper	96.59			49.800	48.100	U
		J\$16	08/03/92	8	Hickel	95.43			4.810	4.590	U
		J\$16	08/03/92	8	Hickel	92.77			49.800	44.200	U
		J516	08/03/92	\$	Hickel	93.98			49.800	44.800	U
		J\$16	08/03/92	8	Thellium	91.05			7.610	8.750	U
		J\$16	08/03/92	\$	Theilium	92.07			97.600	91.700	U
		J\$16	08/03/92	\$	Thattium	92.48			99.700	92.400	U
		JS16	06/03/92	\$	Zine	86.16			9.610	8.200	U
		J\$16	08/03/92	\$	Zinc	92.27			99.600	91.900	U
z.Ju	J\$16	08/03/92	S	Zinc	92.78			99.700	92.500	U	
	J\$16	08/06/92	\$	Silver	120.93			0.798	0.965	U	
	J	J816	06/06/92	\$	Silver	93.72			7.960	7.460	U
		J\$16	08/06/92	\$	Silver	92.61			7.900	7.390	Ų
		J\$16	08/06/92	\$	Beryllium	102.40			4.990	5.110	Ų
•	J816	08/06/92	\$	Beryllium	99.80			49.800	49.300	U	
	JS16	08/06/92	\$	Seryllium.	97.60			49.900	48.700	U	
	J\$16	08/06/92	\$	Codnium	100.40			4.990	5.620	-	
	J\$16	08/06/92	\$	Codolum	94.38			49.800	47.000		
	J\$16	08/06/92	\$	Cadatus	93.59			49.900	44.700		
		J816	08/06/92	5	Chronium	99.30			9.970	9.900	7
		J816	08/06/92	\$	Chronium .	95.67			99.500	93.200	١
		J\$16	06/06/92	\$	Chronium	92.08			99.800	91.900	
		J816	08/06/92	\$	Copper	100.00			4.990	4.990	ı
		J S 16	08/06/92	\$ \$	Copper	95.58			49.800	47.600	•
		J\$16	08/96/92	\$	Copper Nickel	94.79			49.900	47.300	
		J S16	08/06/92	\$	Nickel	105.21			4.990	5.250	1
		J816 J816	08/06/95	•	Nickel	90.%			49.800	45.300	9
		JS16	08/06/92	\$	Theilium	89.78			49.900	44.800	1
		JS16	08/96/92	\$	Thelium	122.37 92.26			9.970	12.200	
		JS16	08/06/92	\$	Theilium	72.59 75.59			99.500	91.800	
				•					99.800	95.400	1
		J816 J816	08/04/92	\$	Zinc Zinc	133.40			9.970	13.300	•
		J816	08/06/92	\$	Zinc	95.58 94.49			99.300 99.800	95.100 94.300	1
	ZJN	J816	08/18/92	\$	Silver	106.40			0.797	0.848	ı
		JS16	08/18/92	\$	Silver	95.18			7.670	7.300	ŧ
		J\$14 [.]	06/16/92	8	Silver	96.29			7.820	7.530	1
		J\$16	08/18/92	\$	Beryllium	108.83			4.900	5.300	
		J\$16	06/18/92	\$	Beryllium	98.54			47.900	47.200	
		J\$16	08/18/92	\$	Boryllium	96.77			48.900	48.300	
		J816	06/18/92	8	Codeium	100.00			4.900	4.980	
		J816	06/18/92	8	Codefun	94.36			47.900	45.300	
		JE16	06/16/92	8	Codnium	94.46			48.900	44.300	
		J516	00/10/92	\$	Chremium	106.12			9.970	10.400	
		J816	06/18/72	8	Chresius	89.99			95.900	84.300	
		J816	06/16/72	8	Chremium	91.10			97.800	89.100	
		J816	06/16/72	8	Copper	105.42			4.900	5.290	
		J816	00/10/72	2	Copper	95.30			47.900	45.400	

Notes for Bota Flaga: 1 = Results Loss than CRL but greater than CCD, R = Analyte required for reporting purposes but not surrently sertified, X = Analyte resevery dutaids of contified range but within acceptable limits

Totale-North Phase ! RF! Standard Matrix Sample Results

b	Lot	Test Nethed	Anolysis Date	ec Test	Charrical Heme	· (%)	Data Flags	Deta Qualifiers	Spiked Canaen.	Recovered Concen.	Unit
	ZJN	J\$16	08/18/92	\$	Cepper	95.91		· · · · · · · · · · · · · · · · · · ·	48.900	46,900	UG
		J\$16	08/18/92	8	Hickel	103.21			4.980	5.140	UG
		J\$16	06/18/92	8	Hickel	87.98			47.900	43.100	UG
		J\$16	06/18/92	8	Hickel	93.05			48.900	45.500	UE
		J\$16	08/18/92	\$	Thellium	104.31			9.970	10.400	UG
ŗ		J\$16	08/18/92	\$	Thellium	89.78			95.900	86,100	u
•		JS16	08/18/92	\$	Thatlium	91.31			97.800	89.300	UG
		J\$16	08/18/92	S	Zinc	136.41			9,970	13.600	UE
		J\$16	06/18/92	\$	Zinc	93.95			95.900	90.100	UG
		J\$16	08/18/92	\$	Zinc	94.89			97.800	92.800	UG
	ZJX	J\$16	08/21/92	8	Silver	101.01			0.794	0.802	UG
		J\$16	08/21/92	\$	Silver	94.19			7.920	7.460	UG
		JS16	08/21/92	S	Silver	94.07			7.930	7.460	ŲG
		JS16	08/21/92	\$	Servilium	102.42			4.960	5.000	UE
		J\$16	06/21/92	\$	Beryllium	96.38			49.500	48.700	UK
		J\$16	08/21/92	Š	Beryllium	99,19			49.500	49.100	U
		JE16	08/21/92	3	Cadaium	94.15			4.960	4.670	u
		J\$16	08/21/92	\$	Cadaium	93.94			49.500	46.500	U
		J316	08/21/92	Š	Codnium	%.55			49.500	44.800	U
		J316	08/21/92	•	Chronium	104.75			9.930	10.400	U
		JS16	08/21/92	•	Chronium	94.85			99.000	93.900	
		J\$16	06/21/92	s	Chronium	95.16					u
		JS16	08/21/92	-		99.60			99.100	94.300	U
		JS16		\$	Copper	97.58			4.960	4.940	U
			06/21/92	-	Copper				49.500	48.300	U
		J\$16	08/21/92	\$	Copper	97.98			49.500	48.500	u
		J\$16	08/21/92	\$	Nickel	101.41			4.960	5.030	U
		J816	08/21/92	\$	Hickel	92.53			49.500	45.800	U
		J\$16	06/21/92	\$	Hickel	92.93			49.500	46.000	U
		J S 16	06/21/92	\$	Theilium	115.81			9.930	11.500	U
		J\$16	08/21/92	\$	Theilium	94.55			99.000	93.600	U
		J816	08/21/92	\$	Theilium	94.05			99.100	93.200	u
		J S 16	08/21/92	\$	Zine	120.85			9.930	12.000	U
		J S 16	08/21/92	\$	Zine	95.86			99.000	94.900	U
		J\$16	08/21/92	\$	Zinc	94.85			99.100	94.000	U
	ZKB	5009	07/10/92	\$	Theilium	107.00			10.000	10.700	U
		SD09	07/10/92	8	Theilium	100.50			20.000	20.100	u
		\$009	07/10/92	8	Theilium	194.50			20.900	20.900	U
	ZKC	2009	07/23/92	\$	Theilium	101.00			10.000	10.100	U
		2009	07/23/92	8	Theilium	102.50			20.000	20.500	U
		SD09	07/23/92	\$	Thellium	105.00			20.000	21.900	U
	ZKF	5009	00/21/92	8	Theilium	94.00			10.000	9.400	U
		2007	08/21/92	\$	Thellium	100.50			20.900	20.100	U
		2007	06/21/92	8	Theilium	105.50			20.000	21.100	U
	2K1	2009	06/13/92	8	Thellium	106.00			10.000	10.600	U
		2007	06/13/92	8	Theilium	109.50			20.900	21.900	U
		2007	06/13/92	\$	Thellium	110.00			20.000	22.000	U

Note: -or Data Flags: 1 = Results less than CRL but greater than CCD, R = Analyte re- ud for reporting purposes but not currently cortified, X = Analyte resevery outside of cortified range but within ecceptable limits

APPROPRIES

Totale-Marth Phase I RFI Standard Matrix Sample Results

Lab	Let	Test Method	Analysis Date	ec Test	Chamical Name	Result (%)	Data Flags	Deta Qualifiers	Splited Consen.	Receivered Concon.	Unit
ES	ZICL	2009	09/02/92	8	Theil fum	91.00			20.000	18.200	UGL
		1007	09/02/92	\$	Thellium	92.50			20.000	18.500	UEL
ES	2101	2009	08/13/92	\$	Theilium	103.00			10.000	10.300	UGL
		2009	08/13/92	8	Thellium	105.50			20.000	20.700	UGL
		1009	08/13/92	8	Theilium	197.50			20.000	21.500	UGL
ES	2115	UH8	07/08/92	\$	2,4,6-Tribremophenol	92.54			6.700	6.200	UGG
		UH18	07/08/92	\$	2-fluorobiphonyl	95.94			3.300	3.100	UGG
		LH18	07/08/92	8	2-fluorophonol	43.58			6.700	5.600	UGG
		LH18	07/08/92	\$	Hitrobantana-DS	84.85			3.300	2.800	uec
		LH18	07/08/92	8	Phonol-D6	85.07			6.700	5.700	UGE
		Un18	07/08/92	8	Terphanyl -014	103.03			3.300	3.400	UGG
:8	ZNC	LH18	07/12/92	\$	2,4,6-Tribromophenol	85.06			6.700	5.900	UGG
		LH18	07/12/92	8	2-Fluprebiphenyl	96.97			3.300	3.200	uec
		LH18	07/12/92	8	2-Fluorophenol	83.58			6.700	5.400	UGG
		LH18	07/12/92	8	Nitrobantone-D5	96.97			3.300	3.290	UBG
		LH18	07/12/92	\$	Phonol -86	91.04			6.700	5.100	UGE
		LM18	07/12/92	\$	Terphanyl-014	100.00			3.300	3.300	UQE
\$	2110	99	07/14/92	8	2,4,6-Tribramaphenol	82.09			6.700	5.500/	
		99	07/14/92	\$	2-Fluorobiphonyl	75.94			3.300	3.100	
		99	07/14/92	\$	2-Fluorephenol	77.61			6.700	5.200	7.
		99	07/14/92	8	Hitrobenzone-05	81.62			3.300	2.700	UE
		99	07/14/92	8	Phenol-96	83.58			6.700	5.400	UE
		99	07/14/92	8	Terphanyl-D14	103.05			3.300	3.400	UG
3	ZNE	LH18	07/01/92	\$	2,4,6-Tribramaphenal	70.15	•		6.700	4.700	uge
		LH18	07/01/92	\$	2-fluorobiphonyl	93.94			3.300	3.100	UCC
		LH18	07/01/92	8	2-Fluorophenol	71.64			6.700	4.800	UC
		LH18	07/01/92	8	Ni trobenzene-05	72.73			3.300	2.400	UC
		LH18	07/01/92	8	Phenol-Dó	74.63			6.700	5.000	UCK
		L9118	07/01/92	\$	Terphanyl -014	90.91			3.300	3.000	UÇ
8	ZNG	LH18	07/15/92	\$	2,4,6-Tribremophenol	83.58			6.700	5.400	uec
		LH18	07/15/92	8	2-Fluorobiphonyl	93.94			3.300	3.100	UDE
		LH18	07/15/92	8	2-fluoraphenol	83.58			4.700	5.400	UBI
		LH18	07/15/92	\$	Hitrebenzene-05	87.88			3.300	2,900	UE
		LINE	07/15/92	\$	Phonel -06	92.54			4.700	4.200	UD
		LIMIS	07/15/92	\$	Terphanyl-014	115.13			3.300	3.800	UO
8	ZMM	U118	07/16/92	\$	2,4,6-Tribromphenol	82.09			6.700	5.500	UO
		LH18	07/16/92	\$	2-Fluorabiphenyl	90.91			3.300	3.000	
		LH18	07/16/92	\$	2-Fluorephenol	80.60			6,700	5.400	_
		LHIS	07/16/92	\$	Hitrobenzene-05	81.82			3.300	2.700	
		LH18	07/16/92	\$	Phonol-96	88.86			6,700	5.900	
		LHIS	07/16/92	8	Terphenyl-014	15.%			3.300	3.100	
13	ZNJ	LINS	07/19/92		2,4,6-Tribramphenel	70.15			6.700	4.700	
		LINIS	07/19/92	8	2-Fluorabiphanyl	95.94			3.300	3.100	
		LINS	07/19/92	•	2-Fluorephenol	73.13			6.700	4.900	

Notes for Data Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not aurrently cortified, X = Analyte recovery outside of certified range but within acceptable limits

Toggle-Horth Phase I RF1 Standard Metrix Sample Results

*	Lot	Test Methed	Analysis Data	QC Test	Chamical Name	Result (%)	Deta Flags	Dete Qualifiers	Spiled Concen.	Recovered Concen.	Uni
3	201J	LINIS	07/19/92	\$	Phonol -06	68.44			6.700	4.400	UG
•		LITT8	07/19/92	\$	Terphanyl-D14	106.06			3.300	3.500	UG
\$	ZNK	LH18	07/21/92	\$	2,4,6-Tribromophenel	98.51			6.790	6.600	UG
		LH18	07/21/92	8	2-Fluorobiphonyl	84.85			3.300	2.800	U
		UHIS	07/21/92	\$	2-fluorophenol	91.04			6.700	6.100	U
		LH18	07/21/92	\$	Nitrobanzane-85	87,.86			3.300	2.990	U
		LM18	07/21/92	\$	Phonol -06	85.07			6.700	. 5.700	U
		LN18	07/21/92	\$	Terphonyl-014	93.94			3.300	3.100	UC
\$	ZIM	LM18	07/25/92	8	2,4,6-Tribramophenol	98.51		•	6.700	6.600	U
		LH18	07/25/92	8	2-Fluorobiphenyl	93.94			3.300	3.100	U
		LM18	07/25/92	\$	2-Fluorophenol	79.10			6.700	5.300	U
		LM18	07/25/92	\$	Nitrobenzene-05	87.86			3.300	2.900	U
		LH18	07/25/92	\$	Phenol-D6	88.06			6.700	5.900	U
		LN18	07/25/92	\$	Terphanyl-014	112.12			3.300	3.700	U
\$	2110	LH18	07/24/92	\$	2,4,6-Tribromophenol	89.55			4.700	6.000	U
		LM18	07/24/92	8	2-Fluorabiphenyl	90.91			3.300	3.000	U
		LH18	07/24/92	8	2-Fluorophenol	92.54			6.700	6.200	Ų
		LIMB	07/24/92	8	Nitrobensene-05	100.00			3.300	3.300	U
		LH18 LH18	07/24/92 07/24/92	\$ \$	Phenol-Dó Terphenyl-B14	97.01 96.97			6.700 3.300	6.500 3.200	U
				_	•						
8	200	99	07/24/92	8	2,4,6-Tribrenophenol	88.06			4.700	5.900	U
		99	07/84/92	8	2-Fluorebiphenyl	87.88			3.300	2.900	U
		99	07/24/92	8	2-Fluerophenol	80.60			6.700	5.400	U
		99 99	07/24/92 07/24/92	\$	Nitrobenzene-05 Phenol-06	96.97			3.300	3.200	u
		99	07/24/92	\$ \$	Terphanyl-014	86.57 112.12			6.700 3.300	5. 80 0 3.700	U
B	211R	LH18	07/28/92	\$	2.4.6-Tribremeshanol	94.03			4	4 700	•
	ZAM.	UH18	07/26/92	•	2-fluorebishenyl	%.97			6.700 3.300	4.300 3.200	U
		LHIS	07/26/92	\$	2-Fluoreshenel	77.61			6.700	5.200	U
		UH8	07/26/92	•	Hitrebensone-05	98.91			3.300	3.000	U
		LINE	07/26/92	•	Phonol-D6	88. 06			6.700	5.900	Ü
		LIMS	07/28/92	\$	Terphenyl -014	109.09			3.300	3.400	ì
ı	2117	LH18	07/29/92	\$	2,4,6-Tribremophenol	82.00			6.700	5.500	·
		LH18	07/29/92	\$	2-Fluorobishenvi	93.94			3.300	3.100	i
		LH18	07/29/92	\$	2-Fluorephonol	76.12		*	6.700	5.100	ì
		LINE	07/29/92	\$	Nitrebensone-95	81.82			3.300	2.700	
		um8	07/29/92	\$	Phonoi -96	80.40			6.700	5.400	
		LH18	07/29/92	8	Terphenyl -014	87.86			3.300	2.900	
3	23WJ	LH18	07/30/92	8	2,4,6-Tribranaphenol	87.5 5			4.700	6.000	
		LIME	07/30/92	\$	2-Fluorabiphanyl	95.94			3.300	3.100	
		LIMS	07/30/92	8	2-Fluorephonol	86.57			6.700	5.800	
		LIM8	07/30/92	8	Nitrobensene-05	84.85			3.300	2.800	•
		LIMB	07/30/92	8	Phenol -86	92.54			4.700	6.300	
		LH18	07/30/92	8	Terphenyl-014	121.21			3.300	4.000) 1
					2,4,6-Tribramphanal						

Notes for Date Flage: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not ourrently cortified, X = Analyte recovery outside of certified range but within acceptable limits

Téatle-Martin Phone I 871 Standard Hatrix Simple Assulto

ظفا	Let	Test Method	Analysis Date	QC Test	Chemical Name	Result (%)	Date Flags	Dete Qualifiers	Spiked Concen.	Recovered Concen.	Unit
:8	ZNN	LN18	07/31/92	\$	2-Fluorobighenyi	96,97			3.300	3.200	uee
		LH18	07/31/92	\$	2-Fluoreghenol	83.50			4.700	5.400	U66
		LINS	07/31/92	S	Hitrobenzene-85	67.86			3.300	2.900	UGG
		LH18	07/31/92	2	Phonoi -06	89.55			6.700	6.000	UGE
		um8	07/31/92	\$	Terphonyl-014	118.18			3.300	3.900	UEG
ES	2384	LHIS	08/04/92	\$	2,4,6-Tribremophenol	91.04			6.700	6.100	UGG
		LHIS	00/04/92	8	2-Fluorobighenyl	84.25		_	3.300	2.800	U66
		LH18	08/04/92	\$	2-Fluorophenol	77.61		·	6.700	5.200	UGG
		LH18	08/04/92	s	Ni trobenzene-05	90.91			3.300	3.000	UGG
		LH18	08/04/92	\$	Phenoi -D6	77.61			6.700	5.200	UGE
		LM18	06/04/92	\$	Terphanyl-014	75.76			3.300	2.500	UGG
ES	ZNX	LH18	08/03/92	5	2,4,6-Tribromophenol	94.03			6.700	6.300	UGG
	_	LHIS	08/03/92	\$	2-Fluorobiphenyl	90.91			3.300	3.000	UGG
		LHIB	06/05/92	8	2-Fluoreshanol	88.06			6.700	5.900	UGG
		LH18	06/85/92	\$	Nitrobenzene-05	93.94			3.300	3.100	UGE
		LINS	08/03/92	\$	Phenol-06	92.54			6.700	6.200	UGG
		LI118	08/03/92	\$	Terphanyl -014	163.05			3.300	3.400	UGG
ES	2NY	LM18	08/05/92	8	2,4,6-Tribremsphenol	85.07			6.700	5.700	uee
		LN18	08/05/92	\$	2-Fluorebighenyl	73.94			3.300	3.100	
		LHIS	08/95/92	8	2-Fluorophenol	85.97			6.700	5.700	•
	LIM	LIMS	06/05/92	8	Hitrebengene-05	84.85			3.300	2.800	1
		LN18	08/05/92	8	Phenol-06	86.57			4.700	5.800	ugs
		LH18	08/05/92	\$	Terphenyl -014	106.66			3.300	3.500	UGG
ES	ZNZ	LN18	08/05/92	s	2,4,6-Tribromophenol	42.09			4.700	5.500	UGG
		LM18	08/05/92	\$	2-Fluorobiphenyl	93.94			3.300	3.100	UGE
		LM18	08/05/92	\$	2-Fluorophenol	80.60			6.700	5.400	UGG
		LH18	08/05/92	8	Hitrobonzone-05	90.91			3.300	3.000	UGG
		LIMS	06/05/92	\$	Phonol -06	85.07			6.700	5.700	UGG
		LIMS	08/05/92	\$	Terphenyt-014	196.06			3.300	3.500	UGG
ES	20V	00	07/03/92	\$	Total petroleum hydrocarbons	97.35			1130.000	1100.000	VGG
	20W	00	07/06/92	\$	Total petroloum hydrocarbons	94.23			1130.000	1110.000	ucc
ES	20K	60	07/09/92	\$	Total petroloum hydrocorbons	99.17			1219.000	1200.000	UGG
ES	ZPA	UN30	06/22/92	8	1,2-Dichlereethane-84	96.80			50.000	48.000	UGL
		UN20	06/22/92	8	4-Branef Lucrabanzane	76.00			50.000	49.880	
		(1)	04/22/92	8	Toluene-96	76.80			50.000	48.000	UGL
ES	ZPC	UN20	06/36/92	8	1,2-9 ich largethane-04	96.00			50.000	48.000	
		U120	06/36/92	8	4-Branef Lucrabanzane	190.00			50.000	50.000	
		U120	04/34/35	8	Tolumo-86	78.00			50.000	49.000	UGL
ES	270	UN20	07/01/92		1,2-9ichlaresthens-94	92.00			50.000	46.000	
		UN20	07/01/12	\$	4-Branef Lucrobunaine	92.00			50.000	46.000	
		U120	67/61/92	8	Telume-86	72.00			50.000	46.000	
	296	محي	07/02/92		1,2-91chloroethene-04	70.00		•	50.000	49.800	

Hotes for Bote Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not ourrently contified, X = Analyte recovery outside of contified range but within acceptable limits

Totale-North Phase I RFI Standard Matrix Sample Results

.	Lot	Test Nethed	Analysis Date	QC Test	Chamical Home	Recult (%)	Data Floor	Data Qualifiers	Spiked Concen.	Recevered Concern.	Unit
									CONTRACTOR .		
3	ZPE	UH20	07/02/92	\$	4-Branef Lucrobenzene	100.00			50.000	50.000	UGL
		m(50	07/02/92	\$	Toluene-08	96.60			50.000	49.000	UGL
8	ZPF	UH20	07/07/92	\$	1,2-Dichloreethane-D4	94.00			50.000	47.000	UCL
		MS0	07/07/92	8	4-Branof Luorobenzene	96.00			50.000	48.000	UGI
		m50	07/07/92	\$	Toluene-05	96.00			50.000	48.000	UG
5	2PG	UN20	07/14/92	\$	1,2-Dickloroethane-D4	94.00			50.000	47.000	UGI
		UH20	07/14/92	8	4-Bremofluorobenzene	96.00			50.000	48.000	UG
		UN20	07/14/92	\$	Tolume-06	98.00			50.000	49.000	UG
\$	ZPH	UN20	07/16/92	\$	1,2-Dickloroethene-04	96.00			50.000	48.000	UG
		UN20	07/16/92	8	4-Bremof!worebenzene	96.00			50.000	49.000	UG
		m(50	07/16/92	\$	Toluene-06	98.00			50.000	49.000	UG
\$	ZPI	UH20	07/17/92	\$	1,2-Dickleroethene-D4	94.00			50.000	47.000	UG
		TM50	07/17/92	8	4-Bremofluorobenzene	96.00			50.000	49.000	UG
		m(50	07/17/92	\$	Toluene-06	98.00			50.000	49.000	UG
\$	ZPK	m50	07/22/92	\$	1,2-Dickleroethene-04	96.00			50.000	48.000	UG
		m(50	07/22/92	8	4-Bramefluorobenzene	96.00			50.000	48.000	U
		m(50	07/22/92	\$	Toluene-06	94.00			50.000	47.000	U
3	2PL	m50	07/24/92	\$	1,2-Dichloroethene-04	92.00			50.000	46.000	U
		MISO	07/24/92	8	4-Branof Luorobenzene	98,00			50.000	49.000	U
		m50	07/24/92	\$	Toluene-08	98.00			50.000	49.000	UE
8	ZP\$	UH20	08/04/92	\$	1,2-Dichloroethene-D4	96.00			50.000	48.000	uc
		UN20	08/04/92	\$	4-Branef Luorabenzene	96.00			50.000	48.000	U
		m(50	08/04/92	\$	Toluene-D8	98.00			50.000	49.000	UC
5	ZPU	UNI20	06/07/92	\$	1,2-Dichloroethana-D4	96.00			50.000	48.000	U
		MISO	08/07/92	\$	4-Bramof Luerobenzene	100.00			50.000	50.000	U
		UH20	06/07/92	\$	Toluene-06	100.00			50.000	50.000	U
8	ZPV	UH20	08/11/92	\$	1,2-Dichloroethane-D4	94.00			50.000	47.000	u
		UH20	08/11/92	\$	4-Bramoftuorobonzone	96.00			50.000	49.000	U
		m(50	06/11/92	\$	Toluene-06	96.00			50.900	49.000	U
8	ZPU	m50	08/12/92	8	1,2-Dichloroethene-D4	96.00			50.000	48.000	u
			06/12/92	8	4-Bromof Luorebenzene	96.00			50.000	49.000	U
		UNIZO	08/12/92	8	Toluene-DS	98.00			50.000	49.000	U
į.	ZPX	UH20	06/13/92	8	1,2-Dichtereethene-D4	96.00			50.000	48.000	
			08/13/92	8	4-Branof Luorabenzene	100.00			50.000	50.000	U
		UH20	06/13/92	\$	Toluene-DS	100.00			50.000	50.000	U
•	ZPY	U120	08/18/92	\$	1,2-81chleroethene-04	96.60			50.000	49.000	_
	•	UNCO	06/18/92	8	4-Bramefluorobensone	100.00			50.000	50.000	_
			06/18/92	8	Telusna-95	98.00			50.000	47.000	Ų
8	20A	J001	07/67/92	8	Reroury	83.67			0.000	0.002	U
		JOSE	07/07/92	8	Hereury	92.30			0.752	0.731	4

Notes for Data Flags: 1 = Results less than CRL but greater than CED, R = Analyte required for reporting purposes but not surrently contified, X = Analyte recovery outside of certified range but within acceptable limits

Totale-Hersh Phase ! SF! Standard Mitrix Scople Results

~		4	July .
	_		
	•		Ġ.
	1		*
	Ã.		ē.
	. 3		<i>.</i>

.eb	Let	Test Method	Analysis Date	qc Test	Chemical Heme	Result (X)	Dets Flags Q	Date uolifiers	Spiked Consen.	Recovered Consen.	Unit
8	29A	J001	07/07/92	\$	Hercury	87.36			0.799	0.698	UGE
S	298	J801	07/10/92	5	Hercury	89.90	•		0.099	0.009	UGE
		J801	07/10/92	8	Hercury	87.42			0.755	0.660	UG
		JB01	07/10/92	\$	Hercury	92.25			0.800	0.738	UGI
S	zec	JB01	07/10/92	\$	Hercury	91.67			0.096	0.086	ue
		J801	07/1 0/9 2	\$	Hercury	97.12			0.764	0.742	UG
		JB 01	07/10/92	S	Hercury	96.32			0.789	0.760	UG
\$	ZQE	J801	07/10/92	\$	Hercury	92.86			0.096	0.091	UG
		J801	07/10/92	S	Hercury	96.11			0.746	0.717	ŲG
		J#01	07/10/92	\$	Hercury	97.33			0.786	0.765	UG
S	296	JB01	07/15/92	\$	Hercury	89.00			0.100	0.009	UG
		J801	07/15/92	. \$	Hercury	99.86			0.740	0.739	UG
		J 8 01	07/15/92	\$	Hercury	97.96			0.765	0.769	UG
\$	298	J801	07/20/92	\$	Hercury	121.21			0.099	0.120	UE
		J001	07/20/92	3	Hercury	98.35			0.790	0.777	U
		J001	07/20/92	8	Hercury	99.75			0.797	0.795	U
8	29 J	J801	07/20/92	8	Hercury	135.71			0.098	0.133	
		JB01	07/20/92	8	Mercury	105.93			0.792	0.439	7
		J001	07/20/92	\$	Hercury	107.39			0.796	0.857	U
\$	ZQK	J801	07/21/92	\$	Hercury	112.12			0.009	0.111	UE
		J#61	07/21/92	\$	Hercury	107.26			0.765	0.842	U
		JB 01	07/21/92	\$	Hereury	103.79			0.792	0.822	UE
8	20L	J801	07/22/92	\$	Hercury	92.86			0.098	0.091	U
		J801	07/22/92	8	Hercury	93.93			0.791	0.743	U
		J 90 1	07/22/92	\$	Hercury	99,37			0.797	0.792	U
B	299	J001	07/27/92	\$	Receury	91.09			0.100	0.091	u
		1001	07/27/92	8	Hereury	97.29			0.774	0.753	U
		J001	07/27/92	8	Hereury	99.62			0.792	0.789	ü
3	206	J001	06/63/92		Recoury	86.78			0.098	0.087	LXI
		J001	06/05/72	8	Hertury	99.09			0.771	0.764	U
		J001	06/65/92	\$	Horoury	97.12			9.799	0.776	U
1	201	J001	06/01/92	2	Hereury	117.17			0.000	0.116	u
		JB01		\$	Hereury	%.32			9.788	9.759	u
		1001	08/01/92	8	Hereury	96,86			0.797	0.772	U
3	20 U	J001		8	Horeury .	99.00			0.100	0.000	-
		1001	00/04/72	8	Horaury	96.11			0.796	0.765	
		J001	06/04/92	8	Horoury	97.30			0.799	0,766	U
3	20V	J001	00/07/92		Horoury	86.73			0.000	0.005	
		J001		8.	Moreury	87.86			0.771	0,495	
		JB61	00/07/52	2	Hereury	67.9 2			0.795	1.697	

Notes for Data Flags: 1 - Results loss than CRL but greater than CED, R = Analyte required for reporting purposes but not ourrantly cortified, X = Analyte resource outside of cortified range but within acceptable limits

Topole-North Phase I RFI Standard Matrix Sample Results

	Lot	Test Hethod	Analysis Date	oc Test	Chemical Home	Result (%)	Date Flage	Date Guelifiers	Spiked Concen.	Concen.	Unit
<u>. </u>	70U	J801	08/17/92	8	Hercury	73.96			0.096	0.071	UG
•		JB01	08/17/92	\$	Hercury	92.20			0.756	0.697	ue
	•	JB01	08/17/92	\$	Hercury	86.71			0.797	0.707	UE
3	201	J801	08/20/92	s	Hercury	87.76			0.098	0.006	UG
-		JB01	08/20/92	\$	Hercury	91.13			0.778	0.709	UE
		J901	06/20/92	\$	Hercury	91.88			0.800	0.735	UE
•	ZRA	UH18	07/07/92	\$	2,4,6-Tribromophenol	81.00			100.000	81.000	uc
		UN18	07/07/92	5	2-Fluorobiphenyl	64.00			50.000	32.000	U
		UN18	07/07/92	\$	2-Fluorophenol	61.00			100.000	61.000	U
		UN18	07/ 07/9 2	\$	Nitrobenzene-05	74.00		•	50.000	37.000	U
		UN18	07/07/92	\$	Phonol-06	40.00			100.000	40.000	U
		UH18	07/07/92	\$	Terphonyl-014	102.00			50.000	51.000	U
8	ZRO	UN18	07/17/92	s	2,4,6-Tribramophenol	85.00			100.000	85.000	U
		W18	07/17/92	. 5	2-Fluorebiphenyl	46.00			50.000	33.000	U
		LIN18	07/17/92	8	2-Fluorophenol	61.00			100.000	61.000	U
		W118	07/17/92	-\$	Nitrobenzone-05	68.00			50.000	34.000	u
		UN18	07/17/92	\$	Phenol-Dó	44.00			100.000	44.000	U
		UN18	07/17/92	\$	Terphenyl-D14	72.00			50.000	36.000	U
•	ZZE	UN18	07/21/92	\$	2,4,4-Tribremephenol	95.00			100.000	95.000	U
		UN18	07/21/92	8	2-Fluorobiphonyl	72.00			50.000	36.000	U
		UN18	07/21/92	\$	2-Fluprophenol	59.00			100.000	59.000	U
		W118	07/21/92	\$	Hitrobenzone-05	74.60			50.000	37.000	U
		ur18	07/21/92	\$	Phonoi-D6	45.00			100.080	45.000	U
		UN18	07/21/92	\$	Terphanyl -014	88.00			50.000	44.000	U
3	ZRG	UN18	07/21/92	\$	2,4,6-Tribromophenol	83.00			100.000	83.000	U
		UN18	07/21/92	\$	2-Fluorobiphonyl	76.00			50.000	38.000	U
		um8	07/21/92	8	2-Fluorophenol	61.00			100.000	61.000	U
		UM8	07/21/92	8	Nitrobaneane-05	78.00			50.000	39.000	U
		ums.	07/21/92	8	Phonol-06	45.00			109.000	45.000	U
		UN18	07/21/92	\$	Terphonyl -014	104.00			50.000	52.000	U
8	ZRH	un18	07/29/92	\$	2,4,6-Tribremophe ol	81.00			100.000	81.000	U
		unt8	07/29/92	8	2-Fluorobiphonyl	86.00			50.000	43.000	U
		UN18	07/29/92	8	2-Fluorophenol	46.00			100.000	66.000	U
		UM18	07/29/92	8	Hitrebenzene-05	84.60			50.000	42.000	u
		UN18	07/29/92	\$	Phonol -96	46.00			100.000	44.000	U
		UM18	07/29/92	\$	Terphenyl-014	78.90			50.000	39.000	U
3	ZRI	UH18	07/31/92	\$	2,4,6-Tribramaphenol	90.00			100.000	90.000	U
		UN18	07/31/92	8	2-Fluorabiphenyl	48.00			50.000	34.000	_
		UM18	07/31/92	8	2-Yluorophenel	46.00			100.000	40.000	
		UN18	07/31/92	\$	Ni trabanzona-85 Phanai -96	48.90 40.00			50.000	34.000	_
		uns uns	07/31/92 07/31/92	\$ \$	Tershanyt-814	76.00			100.000	40.000	-
			J1/J1/76	•		75.60			50.000	38.600	, U
	ZRJ	UH18	08/04/92	\$	2,4,6-Tribremsphenel	90.00			100.000	90.000	-
		UNIS	08/04/92	. 2	2-Fluorabiphanyl	86.00			50.000	44.000	

Notes for Data Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently cortified, X = Analyte resevery outside of certified range but within acceptable limits

Indigertorife State 1 Aff. Starging Marie, Sample Secults

•	Lot	Test Method	Anolysis Date	oc Test	Chemical Name	Regult (%)	Peta Flaga	Date Qualifiers	Spiked Concen.	Recovered Concen.	Uni
	ZRJ	UN18	08/04/92	\$	2-Fluorophenol	66.00			100,660	68.000	UG
•		unte	08/04/92	\$	#itrobensine-05	80.00			50.000	40.000	UG
		UN18	08/04/92	\$	Phone i -Dé	50.00			100.000	50,000	UG
		UH18	08/94/92	8	Terphanyl-014	82.00			50.000	41.000	UG
8	280	UN18	08/12/92	s	2,4,6-Tribramaphenol	110.00			100,000	110.000	UG
-		UH18	08/12/92	\$	2-Fluorobiphenvi	90.00			50.000	45.000	UG
		uri8	08/12/92	2	2-Fluoroshenol	90.00			100,000	90.000	UG
		un18	08/12/92	•	Hitrobenzene-05	92.00			50.000	46.000	UC
		until	08/12/92	\$	Phonoi-D6	59.00			100,000	59.000	UG
		uns	08/12/92	Š	Terphanyl-014	120.00			50.000	60.000	ĸ
B	ZRP	19118	08/19/92	\$	2.4.6-Tribremephenol	52.00			109,000	52,000	UG
•	LRP	unt8	08/19/92	Š	2-Fluorobishenvi	74.00			50.000	38.000	UC
			08/19/92	•	2-Fluoraphenol	58.00			100.000		
		UN18		-	Ni trobantane-05					58.000	U
		UN18	08/19/92	\$		44.80			50.000	33.000	U
		unse	06/19/92	\$	Phenot-06	42.00			100.008	42.000	U
		UI18	08/19/92	8	Terphanyi -014	94.00			50,800	47.000	U
8	ZMR	unts	08/14/92	8	2,4,6-Tribremephenol	94.00			100.000	94.000	U
		unts	06/14/92	8	2-Fluorobiphonyl	76.00			50,000	38.000	U
		urts.	08/14/92	8	2-Fluorophenol	75.00			100.000	75.000	
1	un18	08/14/92	8	Nitrobenzone-05	82.00			50.000	41.000		
	wns.	00/14/92	8	Phonol-D6	60.00			100.000	40.000 ¹		
		uri\$	08/14/92	8	Terphanyl-D14	106.99			50.000	53.000	U
8	285	U118	06/14/92	\$	2,4,6-Tribramophenol	100.00			100.000	100.800	U
		UN18	06/14/92	8	2-Fluerobiphonyl	. 96.00			50.000	48.000	U
		W118	08/14/92	\$	2-Fluorophenol	76.00			100.000	76.000	U
		UN18	06/14/92	8	Nitrobenzene-05	94.00			50.000	47.000	U
		UP118	08/14/92	\$	Phenol-Dó	51.00			100.000	51.000	U
		UN18	08/14/92	\$	Terphonyl-D14	92.00			50.000	46.000	U
B	ZRV	1 1118	08/25/92	8	2,4,6-Tribromophenol	97.00			100.000	89.00 0	U
		418	08/25/92	8	2-Fluerobiphonyl	86.00			50.000	43.000	U
		3	08/25/92	8	2-fluorephenol	71.00			100.000	71.000	U
		8 اسا	08/25/92	8	Hitrobensone-05	94.00			50.000	47.000	U
		UN18	08/25/92	8	Phonol-06	42.00			100,000	42.000	U
		UN18	04/25/R	8	Terphonyl-014	100.00			50.000	50.000	U
В	298	JD 15	07/25/92	\$	Selenium	113.95			0.481	0.548	
		JD15	07/25/92	\$	Seienium	99.07			7.560	7.490	
		JD 15	07/25/92	\$	Selenium	100.92			7.570	7.640	•
6	ZSC	.015	08/09/92	8	Selenium	112.03			0.482	0.540	ı
		JD15	00/09/92	8	Selenium	93.22			7.820	7.290	
		JD15	06/09/12	\$	Selenium	95.71			7.990	7.450	
В	287	.D15	00/14/92	8	Selenium	105.78			0.476	0.494	
		JD 15	09/16/92	8	Solenium	96.73			7.490	7.440	
		JD 15	06/16/92	8	Seignium	102.26			7.970	8.190	
											_

Hotes for Boto Flags: 1 = Results Less than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently contified, X = Analyte recovery outside of certified range but within acceptable limits

APPENDIX C-18

Tooele-North Phase I RF! Standard Matrix Sample Results

ab da	Lot	Test Method	Analysis Date	QC Test	Chemical Name	Result (%)	Data Flags	Data Qualifiers	Spiked Concen.	Recovere Concen.
5	ZSG	JD15	08/17/92	\$	Selenium	86.23			7.770	6.70
		JD15	08/17/92	S	Selenium	87.55			7.790	6.82
S	ZSH	JD15	08/20/92	S	Selenium	86.12			0.490	0.42
		JD15	08/20/92	S	Selenium	94.39			7.310	6.90
		JD15	08/20/92	S	Selenium	95.35			7.520	7.17
S	ZSM	JD15	08/24/92	S	Selenium	100.00			0.495	0.49
		JD 15	08/24/92	5	Selenium	100.27			7.510	7.53
		JD15	08/24/92	S	Selenium	101.45			7.570	7.68
S	zso	JD15	09/16/92	s	Selenium	117.84			0.499	0.5
		JD15	09/16/92	\$	Selenium	99.74			7.810	7.75
		JD15	09/16/92	S	Selenium	98.48			7.900	7.70
\$	ZSP	JD15	09/19/92	S	Selenium	125.81			0.492	0.6
		J015	09/19/92	8	Selenium	99.36			7.780	7.7
		JD 15	09/19/92	S	Selenium	96.87			7.990	7.9
S	zss	JD15	08/07/92	s	Selenium	108.03			0.473	0.5
		JD15	08/07/92	\$	Selenium	100.92			7.590	7.6
		J015	08/07/92	\$	Selenium	98.04			7.640	7.4
•	ZSW	JD15	09/28/92	s	Selenium	113.79			0.464	0.5
		JD 15	09/28/92	\$	Selenium	99.48			7.680	7.6
		JO 15	09/28/92	S	Selenium	100.26			7.760	7.7
\$	ZSY	JD15	09/28/92	s	Selenium	113.82			0.492	0.5
		JD15	09/28/92	S	Selenium	94.50			7.630	7.2
		JD 15	09/28/92	S	Selenium	93.59			7.960	7.4
5	ZTA	LH19	06/26/92	s	1,2-Dichloroethane-D4	98.00			0.050	0.0
		LH19	06/26/92	S	4-Brostof Luorobenzene	102.00			0.050	0.0
		LM19	06/26/92	S	Toluene-D8	104.00			0.050	0.0
6	ZTB	LM19	06/29/92	s	1,2-Dichloroethane-D4	108.00			0.050	0.0
		LH19	06/29/92	\$	4-Bromof Luorobenzene	112.00			0.050	0.0
		LM19	06/29/92	S	Toluene-DB	110.00			0.050	0.0
B	ZTC	LM19	06/24/92	8	1,2-Dichloroethane-D4	100.00			0.050	0.0
		LH19	06/24/92	\$	4-Branof Luorobenzene	102.00			0.050	0.0
		LH19	06/24/92	S	Toluene-DB	98.00			0.050	0.0
;	ZTE	LN19	07/01/92	\$	1,2-Dichloroethans-D4	98.00			0.050	0.0
	-	LH19	07/01/92	\$	4-Sramof Luorobenzene	102.00			0.050	0.0
		LH19	07/01/92	\$	Toluene-D8	104.00			0.050	0.0
3	21F	LH19	07/02/92	s	1,2-Dichloroethene-94	92.00			0.050	0.0
		LH19	07/02/92	\$	4-Bramof Luorabenzene	96.00			0.050	0.0
		LH19	07/02/92	\$	Toluene-DB	100.00			0.650	0.0
	2 TG	LH19	07/03/92	8	1,2-Dichloroethene-D4	106.00			0.050	0.0
		LH19	07/03/92	8	4-Brassoft werebenzene	104.00			0.050	0.1

Notes for Date Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not our certified, X = Analyte recovery outside of certified range but within acceptable limits

APPENDIX C-18

Topele-North Phase I RFI Standard Matrix Sample Results

Peggam	_
7	
1	
\	

.ab	Lot	Test Method	Analysis Date	QC Test	Chestical Heme	Result (%)	Data Flags	Deta Qualifiers	Spiked Concen.	Recovered Concen.	Un
s	ZTG	LM19	07/03/92	S	Toluene-D8	100.00			0.050	0.050	U
:s	ZTJ	LH19	07/07/92	\$	1,2-Dichloroethane-04	98.00			0.050	0.049	u
		LH19	07/07/92	S	4-Bromofluorobenzene	104.00			0.050	0.052	u
		LM19	07/07/92	\$	Toluene-08	98.00			0.050	0.049	U
S	ZTL	LN19	07/09/92	s	1,2-Dichloroethane-D4	104.00			0.050	0.052	u
		LH19	07/09/92	S	4-Bromofluorobenzene	104.00			0.050	0.052	u
		LM19	07/09/92	S	Toluene-DB	104.00			0.050	0.052	U
S	ZTM	LM19	07/13/92	s	1,2-Dichloroethane-D4	92.00			0.050	0.046	u
		LM19	07/13/92	S	4-Bromofluorobenzene	96.00			0.050	0.048	U
		LH19	07/13/92	S	Toluene-DB	100.00			0.050	0.050	U
S	ZTN	LM19	07/16/92	s	1,2-Dichloroethane-D4	94.00			0.050	0.047	U
		LH19	07/16/92	\$	4-Bromofluorobenzene	100.00			0.050	0.050	u
		LM19	07/16/92	S	Toluene-08	98.00			0.050	0.049	ย
S	ZTO	LM19	07/16/92	\$	1,2-Dichloroethane-D4	102.00			0.050	0.051	u
		LH19	07/16/92	S	4-Bromofluorobenzene	100.00			0.050	0.050	U
		LH19	07/16/92	S	Toluene-DB	100.80			0.050	0.050	
ES	ZTP	LM19	07/17/92	s	1,2-Dichloroethane-D4	106.00			0.050	0.053	
		LH19	07/17/92	2	4-Bromofluorobenzene	104.00			0.050	0.052	7
		LH19	07/17/92	S	Toluene-DB	108.00			0.050	0.054	U
S	ZTQ	LMiy	07/18/92	s	1,2-Dichlorgethane-D4	96.00			0.050	0.048	-
		LN19	07/18/92	\$	4-Bramof Luorobenzene	100.00			0.050	0. 050	
		LM19	07/18/92	S	Toluene-D8	102.00			0.050	0.051	ι
\$	ZTS	LN19	07/20/92	\$	1,2-Dichloroethane-D4	102.00			0.050	0.051	1
		LM19	07/20/92	\$	4-Bramofluorobenzene	104.00			0.050	0.052	
		LH19	07/20/92	\$	Toluene-DB	100.00			0.050	0.050	·
S	ZTT	LH19	07/20/92	8	1,2-Dichloroethane-D4	94.00			0.050	0.047	
		LN19	07/20/92	\$	4-Branof Luorobenzane	94.00			0.050	0.047	
		LH19	07/20/92	\$	Toluene-D8	96.00			0.050	0.048	•
\$	ZTV	LM19	07/21/92		1,2-Dichloroethene-D4	96.00			0.050	0.048	
		LH19	07/21/92	\$	4-Branof Lyonobenzene	100.00			0.050	0.050	
		LH19	07/21/92	8	Toluene-DS	104.00			0.050	0.052	? (
\$	ZTW	LM19	07/ 22/9 2	\$	1,2-Dichloroethane-D4	94.00			0.050	0.047	
		LH19	07/22/92		4-Bramof Luorobenzone	92.00			0.050	0.046	
		LN19	07/22/92	\$	Toluene-08	92.00			0.050	0.046	1
8	ZTX	LH19	07/24/92		1,2-91chloroethone-04	98.00			0.050	0.049	
		LH19	07/24/92	\$	4-Sramoft uprabanzone	100.00			0.050	0.050	
		LH19	07/24/92	8	Toluene-DB	190.90			1,050	0.650	
ES	ZTY	LH19	07/26/92		1,2-Dichloreethene-94	96.00			0.050	0.04	
		LH19	07/26/92		4-Branef Lypraboneone	104.00			0.650	0.05	
		LH19	07/26/92	8	Tolume-08	100.00			0.050	0.66	4

Notes for Sata Flags: 1 = Results loss than CRL but greater than CCD, R = Analyte required for reporting purposes but not current certified, X = Analyte recovery outside of certified range but within acceptable limits

Tooele-North Phase I RFI Standard Matrix Sample Results

de.	Lot	Test Hethod	Analysis Date	QC Test	Chemical Name	Result (%)	Data Flags	Data Qualifiers	Spiked Concen.	Recovered Concen.	Uni
_				_							
5	ZUA	SD20	07/25/92 07/25/92	\$	Leed	90.00 95.75			10.000	9.000	_
		\$020 \$020		5	Lead	96.38			80.000	76.600	U
		302 0	07/25/92	S	Lead	79.30			80.000	77.100	U
S	ZUE	SD20	08/20/92	\$	Lead	106.00			10.000	10.600	U
		SD20	08/20/92	S	Lead	104.13 104.63			80.000	83.300	U
		SD20	08/20/92	S	Lead	104.03			80.000	83.700	U
\$	ZUK	SD20	08/07/92	S	Lead	106.00			10.000	10.600	IJ
		SD20	08/07/92	S	Lead	94.50			80.000	75.600	U
		\$ 020	08/07/92	S	Lead	95.88			80.000	76.700	U
S	ZUI	SD20	08/10/92	S	Lead	79.00			10.000	7.900	U
		SD20	08/10/92	S	Lead	102.50			80.000	82.000	U
		SD20	08/10/92	S	Lead	104.25			80.000	83.400	U
S	ZUM	SD20	09/03/92	S	Lead	78.00			10.000	7.800	u
		SD20	09/03/92	S	Lead	96.00			80.000	76.800	L
		SD20	09/03/92	S	Leed	98.00			80.000	78.400	·
	7UN	\$020	08/13/92	s	Lead	108.00			10.000	10.800	1
		SD20	08/13/92	s	Leed	102.38			80.000	81.900	i
		SD20	08/13/92	S	Lead	103.75			80.000	83.000	Į
5	ZWA	00	07/08/92	s	Total petroleum hydrocarbon	w 90.65			4280.000	3880.000	ı
		00	07/08/92	S	Total petroleum hydrocarbon				4280.000	4000.000	
5	ZXA	J017	08/19/92	s	Lead	113.24			0.491	0.556	
•		JD17	08/19/92	S	Lead	84.81			7.770	6.590	
		J017	08/19/92	\$	Leed	83.57			7.790	6.510	
5	ZXB	J017	08/19/92	s	Lead	94.29			0.490	0.462	
•		J017	08/19/92	\$	Leed	81.94			7.310	5.990	
		J017	08/19/92	\$	Leed	81.38			7.520	6.120	
8	ZXG	J017	08/20/92	\$	Lead	107.47			0.495	0.532	
-		JD17	08/20/92	\$	Leed	82.56			7.510	6.200	
		JD17	06/20/92	S	Lead	84.28			7.570	6.380	
6	ZXI	J 017	09/14/92	s	Lead	84.77			0.499	0.423	;
•		J017	09/14/92	\$	Leed	98.21			7.810	7.670	
		JD17	09/14/92	\$	Leed	98.61			7.900	7.790	
8	ZXJ	J017	09/15/92		Leed	97.15			0.492	0.478	J
-		JD17	09/15/92	•	Leed	104.63			7.780	8.140	
		J 017	09/15/92	8	Lead	104.63			7.990	8.340	
8	2)01	J 017	08/19/92	8	Lead	. 100.20			0.488	0.489	
-	ent!	J017	08/19/92	•	Lood	87.35			7.270	6.350	
		JD17	08/19/92	•	Lood	83.73			7.590	6.370	

Hotes for Data Fings: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not current certified, X = Analyte recovery outside of certified range but within acceptable limits

APPENDIX C-18

Tocale-Horth Phase I RFI Standard Matrix Sample Recults



Lab	Lot	Test Hethed	Analysis Date	ac Test	Chamical Name	Result (%)	Deta Flags	Dete Qualifiers	Spiked Cancen.	Recovered Concen.	Unit
ES	2309	J D17	09/17/92	<u>s</u>	Lead	95.31			7.680	7.320	UGS
		JD17	09/17/92	8	Lead	93.81			7.760	7.280	UGG
ES	ZXS	J 017	09/25/92	\$	Leed	110.57			0.492	0.544	UGG
		JD17	09/25/92	\$	Leed	99.87			7.630	7.620	UGG
		J 017	09/25/92	\$	Leed	96.37			7.960	7.830	UGG
ES	ZXW	JD17	09/28/92	\$	Leed	80.99			0.484	0.392	UGG
		JD17	09/28/92	\$	Leed	102.04			7.830	7.990	UGG
		J017	09/28/92	\$	Leed	100.50			7.980	8.020	UGG
ES	ZX	J017	09/29/92	s	Lead	82.32			0.492	0.405	UGG
		J017	09/29/92	\$	Leed	96.58			7.750	7.640	UCG
		J017	09/29/92	S	Lead	101.40			7.880	7.990	UGG
ES	ZYA	LW12	08/06/92	\$	1,3,5-Trinitrobenzene	82.87			1.150	0.953	UGG
		FM1S	08/06/92	\$	1,3,5-Trinitrobenzene	83:95			9.220	7.740	ues
		LW12	08/06/92	\$	1,3,5-Trinitrobenzene 2,4,6-Trinitrotoluene	87.85			9.220	8.100	UGG
		LW12 LW12	08/06/92	\$ \$	2,4,6-Trinitrotolume	92.73 91.93			1.100 8.800	1.020	UGG
		LW12	08/06/92	\$	2.4.6-Trinitrotolume	96.48			8.800	8.090 8.490	UGG
		LW12	08/96/92	•	2,4-Dinitrotolugne	86.99			1.230	1.070	
		LW12	06/06/92	2	2.4-9initrotoluene	82.22			9.840	8.090	
		LW12	08/06/92	\$	2,4-Dinitrotoluse	85.77			9.840	8.440	
		LWIZ	06/06/92	\$	2-Mitrotoluene (TIC)	92.45			0.530	0.490	UGE
		LW12	08/06/92	\$	2-Mitrotoluene (TIC)	86.40			22.800	19.700	UGE
		LW12	08/06/92	8	2-Nitrotoluene (TIC)	92.98			22.800	21.200	UGG
		LW12	06/06/92	\$	2-Nitrotoluene (TIC)	93.20			45.600	42.500	UGE
		TN15	08/06/92	5	Mitrobenzene	93.79			3.060	2.870	UGG
		LW12	08/06/92	\$	Nitrobenzene	88.98			24.500	21.800	UGE
		TA15	08/06/92	S	Nitrobenzene	91.43			24.500	22.400	UGG
		FM15	08/06/92	\$ \$	Cyclonite (RDX) Cyclonite (RDX)	90.91 86.92			1.100 8.790	1.000	UGG
		LW12	06/06/92	\$	Cyclenite (RDX)	87.03			8.790	7.640 7.650	UGG
ES	ZYB	LW12	08/09/92		1,3,5-Trinitrebenzene	44.26			1.150	0.785	UGG
		LW12	08/09/92	\$	1,3,5-Trinitrobentone	77.11			9.220	7.110	UGG
		LW12	08/09/92	8	1,3,5-Trinitrobensone	79.39			9.220	7.320	USS
		LW12	08/09/92	\$	2,4,6-Trinitrotoluene	86.82			1.100	0.977	UOC
		LW12	08/09/92	\$	2,4,4-Trinitrotoluene	90.23			8.800	7.940	UGE
		LW12	08/99/92	\$	2,4,4-Trinitretelusne	91.25			8.800	8.830	UC
		LW12	08/09/92	\$	2,4-Dinitrotoluone	82.93			1.230	1.629	UC
		LW12	06/09/92	8	2,4-Dinitroteluene	80.79			9.840	7.950	
		LW12	08/09/92	\$	2,4-9initretoluene	81.20			9.846	7.990	
		LW12	08/09/92	\$	2-Hitrotoluone (TIC)	65.47			0.530	0.453	UGI
		LW12	08/09/92	\$ \$	2-Hitrotolume (TIC) 2-Hitrotolume (TIC)	87.72 89.47			22.800	20.000	
		rais	06/09/92	•	2-Hitrotolume (TIC)	94.88			22.800 45.600	20.400 42.900	UBI
		LMIS	06/99/92	•	Hitrohymane	94.12			3.000	2.880	
		LW12	98/97/92		Nitrobangene	91.43			×.500	22.460	
		LW12	00/09/92	\$	Hitrobunsone	91.84			24.500	22.500	
		LIV12	08/99/92		Cyclenite (RBK)	82.00			1.100	9.902	_
		LW12	08/09/92	\$	Cyclonite (RSK)	85.76			8.790	7.54	

Notes for Data Flags: 1 = Results Less then CRL but greater than CSD, R = Analyte required for reporting purposes but not currently cortified, X = Analyte recovery outside of cortified range but within acceptable limits

Tocele-North Phase I RFI Standard Matrix Sample Results

æb	Lot	Test Hethod	Analysis Date	ac Test	Chemical Name	Result (%)	Date Flags	Deta Qualifiers	Spiked Concen.	Recovered Concen.	Uni
3	ZYB	LW12	08/09/92	s	Cyclonite (RDX)	86.23			8.790	7.580	UG
S	ZYC	LW12	08/10/92	\$	1,3,5-Trinitrobenzene	80.96	•		1.150	0.931	UG
		LW12	08/10/92	S	1,3,5-Trinitrobenzene	78.20			9.220	7.210	UG
		LW12	08/10/92	\$	1,3,5-Trinitrobenzene	79.83		•_	9.220	7.360	UE
		LW12	08/10/92	\$	2,4,6-Trinitrotoluene	92.73		_	1.100	1.020	U
		LW12	08/10/92	S	2,4,6-Trinitrotoluene	90.45			8.800	7.960	U
		LW12	08/10/92	\$	2,4,6-Trinitrotoluene	91.70			8.800	8.070	U
		LW12	08/10/92	S	2,4-Dinitrotolume	84.55			1.230	1.040	U
		LW12	08/10/92	S	2,4-Dinitrotoluene	81.10			9.840	7.980	U
		LW12	08/10/92	\$	2,4-Dinitrotoluene	82.62			9.840	8.130	U
		LW12	08/10/92	\$	2-Mitrotoluene (TIC)	88.11			0.530	0.467	U
		LW12	06/10/92	S	2-Witrotoluene (TIC)	91.67			22.80 0	20.900	U
		LW12	08/10/92	\$	2-Nitrotoluene (TIC)	92.98			22.800	21.200	U
		LW12	08/10/92	S	2-Mitrotoluene (TIC)	98.03			45.600	44.700	ü
		LW12	08/10/92	\$	Ni trobenzene	94.12			3.060	2.880	U
	•	LW12	08/10/92	\$	Hi trobenzene	93.06			24.500	22.80 0	U
		LW12	08/10/9 2	\$	Ni trobenzene	94.29			24.500	23.100	U
		LW12	08/10/92	\$	Cyclenite (RDX)	86.82			1.100	0.955	U
		LW12	08/10/92	\$	Cyclonite (RDX)	86.69			8.790	7.620	U
		LW12	06/10/92	\$	Cyclenite (RDX)	88.40			8.790	7.770	U
	YF	TA15	06/14/92	8	1,3,5-Trinitrobenzone	74.43			1.150	0.856	ı
		LW12	06/14/92	\$	1,3,5-Trinitrobenzene	78.09			9.220	7.200	ı
		LW12	08/14/92	\$	1,3,5-Trinitrobenzene	80.69			9.220	7.440	U
		LW12	08/14/92	\$	2,4,6-Trinitrotoluene	90.00			1.100	0.990	ŧ
		LW12	08/14/92	\$	2,4,6-Trinitrotoluene	91.59			8.800	8.060	ŧ
		LU12	06/14/92	\$	2,4,6-Trinitrotoluene	91.59			8.800	8.060	Ł
		LW12	08/14/92	S	2,4-Dinitrotoluene	86.18			1.230	1.060	ļ
		LW12	08/14/92	\$	2,4-Dinitrotoluene	87.40			9.840	8.600	
		LW12	08/14/92	\$	2,4-Dinitrotoluene	89.02			9.840	8.760	
		LW12	08/14/92	S	2-Nitrotoluene (TIC) 2-Nitrotoluene (TIC)	99.25			0.530	0.473	1
		LW12 LW12	08/14/92 08/14/92	\$	2-Hitrotolume (TIC)	95.61			22.800	21.800	١
		LW12	08/14/92	•	2-Nitrotolume (TIC)	96.05			22.800	21.900	١
		LU12	08/14/92	•	Nitrobenzene	97.59 98.00			45.460 3.660	44.500	
		LW12	08/14/92	•	Nitrobensene	100.00			24.000	2.940 24.000	- (
		LW12	08/14/92	Š	Hitrobensone	102.50			24.000	24.600	(
		LW12	08/14/92	\$	Cyclenite (RDX)	84.00			1.100	0.924	
		LW12	08/14/92	\$	Cyclonite (ROX)	29.76			8.790	7.800	
		LW12	08/14/92	8	Cyclenite (RDX)	91.35			8.790	8.030	•
	ZYG	LW12	08/12/92	\$	1,3,5-Trinitrobenzene	73.04			1.150	0.840	ı
		LW12	08/12/92	8	1,3,5-Trinitrobenzene	78.20			9.220	7.210	
		LW12	06/12/92	8	1,3,5-Trinitrobenzone	80.91			9.220	7.460	
		LW12	08/12/92	\$	2,4,6-Trinitrotoluone	100.00			1.100	1.190	
		LW12	00/12/92	8	2,4,6-Trinitroteluene	94.36			8.800	8.480	
		LW12	06/12/92	8	2,4,6-Trinitrotoluono	97.61			8.800	8.590	
		LV12	06/12/92	8	2,4-9 initretoluene	86.42			1.230	1.090	
		MIS	08/12/92	8	2,4-Binitreteluane	86.79			7.860	8.540	
		LW12	08/12/92	8	2,4-Dinitroteluane	87.50			7.840	8.410	
		rn45	00/12/92	8	2-Hitrotoluane (TIC)	97.17			0.530	0.515	
		LIVIZ	00/12/92	\$	2-Hitrotoluone (TIC)	92.11			22.800	21.000	

Notes for Sets Flags: 1 = Results less than CRL but greater than CDD, R = Analyte required for reporting purposes but not surrently cortified, X = Analyte recovery outside of sortified range but within acceptable limits

Topolo-Horth Phase | 273 Standard Matrix Sample Recuits

_	
- 1	
4	
3	
•	
•	

Lab	Lot	Test Method	Analysis Date	QC Test	Chemical Name	Result (%)	Data Flags	Deta Qualifiers	Spiked Concen.	Recevered Concen.	Unit
28	ZYG	LW12	08/12/92	\$	2-Hitretoluene (TIC)	92.96			22.800	21,200	UGG
		LV12	08/12/92	\$	2-Mitrotoluene (TIC)	97.15			45.400	44.300	ugs
		LW12	06/12/92	\$	Nitrobenzene	98.33		•	3.000	2.950	UGG
		LU12	08/12/92	\$	Nitrebenzene	96.67			24.000	23,200	UGG
		LW12	08/12/92	\$	Nitrobenzene	97.50			24.000	23,400	UGG
		LU12	08/12/92	3	Cyclenite (RDX)	92.73			1.100	1.020	UGG
		LW12	08/12/92	\$	Cyclenite (RDX)	86.85			5.790	7.810	UGG
		LW12	08/12/92	\$	Cyclenite (RDX)	88.96		•	8.790	7.820	UGG
ES	ZYH	LW12	08/13/92	s	1,3,5-Trinitrobunzene	81.04			1.150	0.932	UGG
		LW12	08/13/92	\$	1,3,5-Trinitrobenzone	81.24			9.220	7.490	UGG
		LW12	08/13/92	S	1,3,5-Trinitrobenzene	81.24			9.220	7.490	UGG
		LW12	06/13/92	\$	2,4,6-Trinitrotolume	100.00			1.100	1.100	UGG
		LW12	08/13/92	S	2,4,6-Trinitrotoluene	94.89			8.800	8.350	UCG
		LW12	08/13/92	\$	2,4,6-Trinitrotoluene	97.27			8.800	8.560	UGG
		LW12	08/13/92	\$	2,4-Dinitrotoluone	86.62			1.230	1.090	UGG
		LW12	08/13/92	\$	2,4-Dinitrotoluene	86.79			9.840	8.540	UGG
		LW12	08/13/92	\$	2,4-Dinitrotoluene	88.01			9.840	8.460	UCG
		LU12	08/13/92	\$	2-Mitrotoluene (TIC)	92.26			0.530	0.489	UGG
		LW12	08/13/92	\$	2-Hitrotoluene (TIC)	92.54			22.800	21.100	UGG
		LV12	06/13/92	\$	2-Hitrotoluane (TIC)	93.42			22.800	21.300	UGG
		LW12	08/13/92	\$	2-Hitrotoluene (TIC)	94.96			45.600	43.300	
		LV12	08/13/92	\$	Mitrobenzene	98.67			3.000	2.960	•
		LW12	08/13/92	\$	Mitrobonzone	98.33			24.000	25.400	
		LW12	08/13/92	8	Hitrobonzone	96.75			24.000	23.700	UGG
		LW12	08/13/92	\$	Cyclenite (RBX)	93.64			1.100	1.030	UGG
		LW12	08/13/92	\$	Cyclonite (RDX)	89.76			8.790	7.890	UGG
		LW12	08/13/92	\$	Cyclonite (RDX)	89.76			8.790	7.890	UGG
3	ZYK	LW12	08/26/92	\$	1,3,5-Trinitrobenzene	72.09			1.150	0.829	UGG
		LW12	08/26/92	8	1,3,5-Trinitrobenzene	79.07			9.220	7.290	UGG
		LW12	08/26/92	\$	1,3,5-Trinitrobenzane	80.80			9.220	7.450	UGG
		TA15	08/26/92	\$	2,4,6-Trinitrotoluene	98.18			1.100	1.080	UÇG
		LW12	06/26/92	\$	2,4,6-Trinitrotolusne	95.00			8.800	8.360	UCC
		LW12	08/26/92	\$	2,4,6-Trinitrotoluene	95.57			8.800	8.410	UEG
		LW12	08/26/92	\$	2,4-Dinitrotoluene	101.63			1.230	1.250	UES
		LLV12	08/26/92	\$	2,4-Dinitrotoluene	95.09			7.860	9.160	UGS
		LV12	08/26/92	\$	2,4-Dinitrotoluene	94.82			9.840	9.330	nec
		rn15	08/26/92	8	2-Mitrotoluse (TIC)	100.38			0.530	0.532	UCC
				\$	2 (1 - (1 - (1 - (1 - (1 - (1 - (1 -	87.72			22.800	20.000	uec
		LV12	08/26/92	\$	2-Hitrotoluane (TIC)	95.61			22.800	21.800	UDG
		LW12	06/26/92	\$	2-Hitrotoluene (TIC)	95.61			45.400	43.400	UBG
		LV12	08/24/92		Hitrobonsone	165.33			3.000	3.160	UEG
		LV12		8	Hitrobersone	100.00			24.000	24.000	UEG
		TN15	08/26/92	\$	Nitrobensene Designing (2007)	102.88			24.000	24.500	UES
		LW12	08/36/92	8	Cyclenite (MBK) Cyclenite (MBK)	162.73			1.100	1.130	UEC
		TA15	08/39/45	•	Cyclenite (MMK)	30.85 30.97			8.790 8.790	7. 810 7. 91 0	够
18	ZYL	LW12	06/27/92	8	1,3,5-Trinitrobongone	61.91			1.196	0.712	
-		LW12	00/27/92	\$	1,3,7-Trinitrobenesse	85.5 1			7.220	7.700	
		mus	00/27/72	i	1,3,5-Trinitrebeneene	84.27			7.220	7.770	مصر

Hotes for Data Flags: 1 = Results less than CRL but greater than CED, R = Analyte required for reporting surpasse but not curiodicly cartified, X = Analyte resovery cutoids of cartified range but within acceptable limits

Topele-Horth Phase I RFI Standard Matrix Sample Results

	ZYL	FA15 FA15 FA15 FA15 FA15 FA15 FA15 FA15	08/27/92 08/27/92 08/27/92 08/27/92 08/27/92 08/27/92 08/27/92 08/27/92 08/27/92 08/27/92	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,4,6-Trinitrotoluene 2,4,6-Trinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2-Hitrotoluene (TIC) 2-Hitrotoluene (TIC) 2-Hitrotoluene (TIC) 2-Hitrotoluene (TIC)	97.50 97.84 97.56 94.51 94.92 108.30 94.74		8.800 8.800 1.230 9.840 9.840	8.580 8.610 1.200 9.300 9.340	USG USG USG USG
£¢.		FAUS FAUS FAUS FAUS FAUS FAUS FAUS FAUS	08/27/92 08/27/92 08/27/92 08/27/92 08/27/92 08/27/92 08/27/92 08/27/92	\$ \$ \$ \$ \$ \$ \$ \$	2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2-Hitrotoluene (TIC) 2-Hitrotoluene (TIC) 2-Hitrotoluene (TIC)	97.56 94.51 94.92 108.30 94.74		1.230 9.840 9.840	1.200 9.300	UGG
£¢ .		FAUS FAUS FAUS FAUS FAUS FAUS FAUS FAUS	08/27/92 08/27/92 08/27/92 08/27/92 08/27/92 08/27/92 08/27/92	\$ \$ \$ \$ \$ \$	2,4-Dinitrotoluene 2,4-Dinitrotoluene 2-Hitrotoluene (TIC) 2-Hitrotoluene (TIC) 2-Hitrotoluene (TIC)	94.51 94.92 108.30 94.74		9. 8 40 9. 8 40	9.300	ucc
re '		FA13 FA13 FA13 FA13 FA13 FA13 FA13	08/27/92 08/27/92 08/27/92 08/27/92 08/27/92 08/27/92	\$ \$ \$ \$ \$ \$	2,4-Dinitrotoluene 2-Hitrotoluene (TIC) 2-Hitrotoluene (TIC) 2-Hitrotoluene (TIC)	94.92 108.30 94.74		9.840		
te '		FAUS FAUS FAUS FAUS FAUS FAUS FAUS	08/27/92 08/27/92 08/27/92 08/27/92 08/27/92	\$ \$ \$ \$ \$	2-Hitrotoluane (TIC) 2-Hitrotoluane (TIC) 2-Hitrotoluane (TIC)	108.30 94.74			0 240	
re '		FA15 FA15 FA15 FA15 FA15 FA15	08/27/92 08/27/92 08/27/92 08/27/92 08/27/92	\$ \$ \$ \$	2-Nitrotolumne (TIC) 2-Nitrotolumne (TIC)	94.74		-	,	UGG
		FA15 FA15 FA15 FA15 FA15	08/27/92 08/27/92 08/27/92 08/27/92	\$ \$ \$	2-Hitrotoluene (TIC)			0.530	0.574	UGE
re '		FA15 FA15 FA15 FA15 FA15	08/27/92 08/27/92 08/27/92	S	· · · · · · · · · · · · · · · · · · ·	45 10		22.800	21.600	UGC
		FA15 FA15 FA15	08/27/92 08/27/92	S	2-Mitrotoluene (TIC)			22.800	21.700	UGG
		LW12 LW12 LW12	08/27/92	-		95.39		45.600	43.500	UGG
		LW12 LW12		-	Kitrobenzene	106.67		3.000	3.20C	UGG
ie '		LW12	08/27/92	\$	Nitrobenzene	101.25		24.000	24.300	UGO
te '				\$	Nitrobenzene	101.25		24.000	24.300	UGG
t e '			08/27/92	\$	Cyclonite (RDX)	106.36		1,100	1.170	UGG
te '		LW12	08/27/92	S	Cyclonite (RDX)	91.81		8.790	8.070	UGG
re '		LW12	08/27/92	\$	Cyclonite (RDX)	93.29		8.790	8.200	UGE
-	ZYO .		08/19/92	\$	1,3,5-Trinitrobenzene	56.17		1.150	0.646	UG
		LW12	08/19/92	\$	1,3,5-Trinitrobenzene	79.83		9.220	7.360	UC
		LV12	08/19/92	8	1,3,5-Trinitrobenzone	81.78		9.220	7.540	UG
		LW12	06/19/92	\$	2,4,6-Trinitretoluene	82.64		1.100	8.909	UGE
		LW12	06/19/92	\$	2,4,6-Trinitrotoluene	94.32		8.800	8.300	UC
		LW12	06/19/92	8	2,4,6-Trinitrotoluene	95.11		8.800	8.370	UG
		LW12	08/19/92	\$	2,4-Dinitrotoluene	81.30		1.230	1.000	UG
		LW12	08/19/92	\$	2,4-Dinitrotoluene	84.59		9.840	8.520	UC
		LW12	08/19/92	\$	2,4-Dinitrotoluone	87.80		9.860	8.640	UG
		LW12	08/19/92	8	2-Hitrotoluene (TIC)	78.48		0.530	0.417	UG
		LW12	08/19/92	\$	2-Witrotoluone (TIC)	95.61		22.800	21.800	UC
		LW12	08/19/92	\$	2-Nitrotolumne (TIC)	96.05		22.800	21.900	UCI
		LW12	08/19/92	\$	2-Mitrotolusme (TIC)	96.27		45.400	43.900	UG
		LW12	08/19/92	\$	Ni trobenzene	95.00		3.000	2.850	UG
		LW12	08/19/92	\$	Ni trobenzene	98.33		24.000	23.600	UG
		LW12	08/19/92	8	Hitrobenzene	99.17		24.000	23.800	UG
		LW12	08/19/92	\$	Cyclonite (RDX)	104.55		1.100	1.150	UC
		LW12	08/19/92	8	Cyclonite (RDX)	91.13		8.790	8.010	UG
		LW12	08/19/92	\$	Cyclonite (RDX)	94.54		8.790	8.310	UG
3 7	ZYP	LW12	04/27/92	\$	1,3,5-Trinitrobensene	81.74		1.150	0.940	UG
		LW12	08/26/92	\$	1,3,5-Trinitrebenzene	77.28		9.220	7.310	US
		LW12	06/26/92	8	1,3,5-Trinitrebengene	82.2 1		9.220	7.500	UE
		LW12	00/27/92	8	2,4,6-Trinitrotoluone	101.82		1.100	1.120	UG
		LW12	00/25/92	\$	2,4,6-Trinitreteluene	94.20		8.800	8.290	UE
		LW12	08/26/92	8	2,4,6-Trinitretoluene	95.57		8.800	8.410	UG
		LW12	08/27/92	8	2,4-Binitrotoluone	91.67		1.230	1.130	UG
		LW12	08/28/92	8	2,4-8 ini trotoluane	85.77		7.840	8.440	UG
		MIS	06/26/92	\$	2,4-Dinitrotoluane	84.59		7.840	8.520	UĐ
		rn15	09/27/92	8	2-Hitrotolume (TIC)	103.40		0.530	0.548	US
		LUTZ	08/28/92	8	2-Hitrotolume (TIC)	12.54		22.800	21.100	U
		MUS	M/38/12	8	2-Hitrotoluone (TIC)	12.16		22.000	21.200	W
		LWIZ	06/35/85	8	2-Hitrotolusne (TIC)	95.46		45.400	42.800	W
		LW12	04/27/92	•	Hi trobonsono	165.67		3.000	3.110	W
		MIS	00/20/72	8	Hi trabansano	99.17		24.000	25.000	배
		LW12	00/20/92	8	Hitrobonsone	99.58		24.000	23.900	
		MIS	94/27/92		Cyclenite (ASK)	97.27		1.100	1.670	

Notes for Beta Flags: 1 = Results Less than CRL but greater than CCD, R = Analyte required for reporting purposes but not ourrently contified, X = Analyte resovery outside of contified range but within acceptable limits

APPENDIX C-18

Togele-North Phase 1 RFI Standard Matrix Sample Results

المنتسب والمساور	244
1	

Lab	Let	Test Method	Analysis Date	Test	Chemical Name	Regult (%)	Deta Flags	Deta Qualifiers	Spiked Conson,	Recevered Concen.	Unit
ES	ZYP	LW12	08/28/92	S	Cyclonite (ROX)	89.19			8.790	7.840	UGE
		LW12	06/26/92	\$	Cyclenite (ROX)	89.31			8.790	7.850	UC
ES	ZYS	LW12	08/30/92	\$	1,3,5-Trinitrobenzene	80.87			1.150	0.930	UEG
		LW12	08/30/92	\$	1,3,5-Trinitrobenzone	78.43			9.220	7.250	UGG
		LW12	06/30/92	S	1,3,5-Trinit rebenzene	81.89			9.220	7.550	UGG
		LW12	06/30/92	S	2,4,6-Trinitrotoluone	102.73			1.100	1.130	UGG
		LW12	08/30/92	\$	2,4,6-Trinitrotoluene	94.32			8.800	8.300	UGG
		LW12	08/30/92	8	2,4,6-Trinitrotolume	96.48			8.800	8.490	UGG
		LW12	08/30/92	S	2,4-Dinitrotoluene	91.87			1.230	1.130	UGG
		LW12	08/30/92	\$	2,4-Dinitrotoluane	84.65			9.840	8.330	UGG
		LW12	06/30/92	\$	2,4-Dinitrotoluene	85.77			9.840	8.440	UGG
		LW12	06/30/92	\$	2-Mitrotolusme (TIC)	102.64			0.530	0.544	UGG
		LW12	08/30/92	S	2-Mitrotoluone (TIC)	92.54			22.800	21.100	UGG
		LW12	08/30/92	S	2-Mitrotoluane (TIC)	92.98		,	22.800	21.200	UGG
		LW12	08/30/92	\$	2-Mitrotolusme (TIC)	93.20			45.600	42.500	UGG
		LW12	08/30/92	\$	Nf trobenzene	102.33			3.000	3.070	UGG
		LW12	08/30/92	\$	Hi trobenzene	96.67			24.000	23.200	UCE
		LW12	08/30/92	\$	Hi trobenzene	98.75			24.000	23.700	UGG
		LW12	08/30/92	\$	Cyclonite (RDX)	99.09			1.100	1.090	UGG
		LW12	08/30/92	\$	Cyclenite (RDX)	88.40			8.790	7.770	
		LW12	06/30/92	\$	Cyclenite (RDX)	90.56			8.790	7.960	
ES.	ZYX	LW12	08/31/92	\$	1,3,5-Trinitrobensene	84.61			1.150	0.973	UGE
		LW12	08/31/92	8	1,3,5-Trinitrobenzene	85.65			9.220	7.840	UEG
		LW12	08/31/92	\$	1,3,5-Trinitrobenzone	88.50			9.220	8.160	UGG
		LW12	08/31/92	\$	2,4,6-Trinitrotoluone	102.73			1.100	1.130	ues
		LW12	08/31/92	\$	2,4,6-Trinitrotolume	94.89			8.800	8.350	UCC
		LW12	06/31/92	\$	2,4,6-Trinitrotoluene	96.48			8.800	8.490	UGG
		LU12	08/31/92	8	2,4-Dinitrotoluene	94.31			1.230	1.160	UGG
		LW12	08/31/92	\$	2,4-Dinitrotoluene	86.59			9.840	8.520	UCG
		LW12	08/31/92	8	2,4-Dinitrotoluene	87.40			9.840	8.600	UCG
		LW12	08/31/92	\$	2-Nitrotolume (TIC)	98.11			0.530	0.52G	UGE
		LV12	00/31/92	8	2-Mitrotoluone (TIC)	92.96			22.800	21.200	uce
		LW12	00/31/92	\$	2-Mitretolume (TIC)	93.42			22.800	21.300	UGG
		LV12	06/31/92	8	2-Hitretoluene (TIC)	96.93			45.600	44.200	nee
		LV12	00/31/92	\$	Ki trobenzene	106.67			3.000	3.200	uce
		LW12	08/31/92	*	Mi trabensene	101.67			24.000	24.400	ucc
		LW12	08/31/92	\$	Hi trobenzene	102.50			24.000	24.600	UES
		LW12	08/31/92	\$	Cyclenite (RBK)	W.55			1.100	1.040	uec
		LW12 LW12	08/31/92 08/31/92	\$ \$	Cyclenite (MBK) Cyclenite (MBK)	87.83 89.42			8.790 8.790	7.730 7 940	
					•				•		
ES	ZZA	9810 9610	07/29/92	\$ \$	Borium Borium	99.10 94.67			10.000 3750.000	9.918 3550.000	UGL
		3510	07/29/92	•	Berlun	93.60			7300.000	7020.000	
		9610	07/29/92		Berium	94.88					
		9610	07/29/92		Coloium	75.30			7500.000	7090.000 795.000	
		9610	97/29/92	•	Coleium	98.27			7300.000	7370.000	
		9510	67/20/92	•	Colsium	%.00			19980.000	14488.888	
		9810	97/29/92	•	Celefun	96.67			19000.000	14500.000	_
		9610	07/29/92	•	Codales	6.33			15.000	12.800	
		9610	67/29/92	i	Codelege	91.30			300.00	1030.00	

Notes for Bote Flags: 1 = Results Less than CRL but greater than CCD, R = Analyte required for reporting purposes but not ourranticortified, X = Analyte recovery outside of cortified range but within acceptable limits

Topele-North Phase I RFI Standard Matrix Sample Results

	Lot	Test Method	Analysis Date	QC Test	Chemical Name	Result (%)	Deta Flags	Data Qualifiers	Spiked Cancen.	Recovered Concen.	Uni
3	ZZA	\$\$10	07/29/92	<u> </u>	Cadajus	91.25			4008.000	3650.000	UG
		\$\$10	07/29/92	\$	Cadaium	92.25			4000.000	3690.000	UE
		\$\$10	07/29/92	Š	Cobelt -	95.20			50.000	47.600	UG
		5510	07/29/92	Š	Cobelt	92.50			20000,000	18500.000	UK
		\$\$10	07/29/92	2	Cobelt	91.00			40000,000	36400.000	u
		8810	07/29/92	\$	Cobelt	91.50			40000.000	36600.000	u
		\$\$10	07/29/92	\$	Chronium	89.60			10.000	8.960	u
		\$\$10	07/29/92	5	Chremium	94.50			2000.000	1890.000	u
		\$\$10	07/29/92	\$	Chronium	93.50			4000,000	3740.000	u
		\$\$10	07/29/92	S	Chronium	94.25			4000.000	3770.000	U
		\$\$10	07/29/92	\$	Copper	100.50			20.000	20.100	ŭ
		\$\$10	07/29/92	s	Copper	93.75			4000.000	3750.000	×
		\$\$10	07/29/92	5	Copper	93.13			8000.000	7450.000	
		\$\$10	07/29/92	s	Copper	93.88					UX
		\$\$10	07/29/92	\$	Negnes i un	97.20			8000.000 1000.000	7510.000	U
		SS10	07/29/92	\$	Hegnesium	96.27				972.000	U
		\$\$10 \$\$10	07/29/92	\$	▼	96.67			7500.000	7220.000	u
		SS10	07/29/92	\$	Hegnesium				15000.000	14500.000	U
			07/29/92	-	Hegnesium Henneses	96.00			15000.000	14700.000	U
		\$\$10		\$	Hengenese	97.60			10.000	9.760	u
		8810	07/29/92	\$	Hengenese Managemen	94.80			750.000	711.000	U
		\$\$10	07/29/92	\$	Hanganase	93.33			1500.000	1400.000	U
		\$610	07/29/92	8	Hanganese	94.00			1500.000	1410.000	U
		8810	07/29/92	8	Sodium	103.00			1000.000	1030.000	U
		8810	07/29/92	\$	Sodium	96.50			20000.000	19300.000	U
		\$510	07/29/92	8	Sedius	95.50			40000.000	38200.000	U
		5510	07/29/92	\$	Sodium	96.25			40000.000	38500.000	U
		5510	07/29/92	\$	Nickel	95.20			50.000	47.600	U
		8810	07/29/92	\$	Nickel	93.17			6000.000	5590.000	U
		55 10	07/ 29/9 2	\$	Nickel	91.67			12000.000	11000.000	U
		55 10	07/ 29/9 2	\$	Nickel	92.50			12000.000	11100.900	U
		35 10	07/29/92	\$	Zinc	107.25			40.000	42.900	u
		\$ \$10	07/29/92	8	Zine	90.80			7500.000	6810.000	u
		\$\$ 10	07/29/92	8	Zinc	90.00			15000.000	13500.000	U
		\$610	07/29/92	\$	Zinc	90.67			15000.000	13600.000	U
	22E	\$\$10	00/05/92	\$	Berium	111.00		•	10.000	11.100	U
		35 10	08/05/92	8	Berium	101.07			3750.000	3790.000	U
		5510	06/05/92	8	Berium	76.80			7500.000	7410.000	u
		8510	06/05/92	8	Berium	100.13			7500.000	7510.000	u
		2510	00/05/92	\$	Calcium	96.10			1000.000	761.000	U
		2510	08/05/92	\$	Calcium	101.47			7500.000	7610.000	U
		9810	00/05/92	8	Calcium	76.00			15000.000	14700.000	ť
		8810	08/05/92	8	Calcium	100.47			15000.000	15100.000	ı
		\$510	06/05/92	8	Codelus	90.67			15.000	13.400	i
		5510	06/05/92	8	Codefun	76.00			2000.000	1920.000	Ī
		5610	00/05/12	8	Codnium	75.25			4000.000	3730.000	i
		8810	00/05/92	8	Codnium	96.00			4000.000	3040.000	ì
		9810	08/85/92	8	Cabalt	95.40			50,000	44.800	
		5610	00/05/92	8	Cobelt	99.00			20000.000	17000.000	
		2610	00/05/92		Cabalt	75.30			4000.00	30300.000	
		8816	06/05/72	•	Cobolt	78.00			40000.000	37000.000	
		3610	66/65/R2	•	Chremien	127.00			10.000	12.700	
		3010		•	Chronium	76.50			77.45	16.700	•

Notes for Data Flags: 1 = Results Loss than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently cortified, X = Analyte resource outside of cortified range but within acceptable limits

APPENDEN C-18

Temple-Herth Phase I RFI Standard Matrix Sample Results

Poper	*

		Test	Analysis	90	Chemical Name		Data Flags	Data Qualifiers	Spiked Correct	Recevered	uni
	Lot	Nethod	Date	Test	CAMINI COL NAME	(X)	riage	QUELITIETS	Concen.	Concen.	uni
3	ZZE	\$210	06/05/92	\$	Chronium	95.00			4000.000	3800.000	US
		2210	08/95/92	\$	Chromium	97.00	•		4000,000	3880.000	UC
		\$\$10	08/05/92	-5	Copper	125.50			20.000	25.100	UE
	_	5510	08/05/92	\$	Copper	96.75			4000.000	3870.000	UE
	•	\$\$10 کئے	08/05/92	\$	Copper	94.38			8000.000	7550.000	u
		5310	06/05/92	\$	Copper	95.86			8000.000	7670.000	U
		5810	06/05/92	\$	Hegnedium	95.00			1000.000	950.000	U
		\$\$10	08/05/92	\$	Hegnedium	103.47		_	7500.000	7760.000	U
		\$\$10	08/05/92	S	Hegnesium	100.00			5000.000	15000.000	U
		5510	08/05/92	\$	Hegnesium	102.00		1	5000.000	15300.000	U
		8810	08/05/92	\$	Hanganese	96.70			10.000	9.670	U
		\$\$ 10	08/05/92	5	Hanganese	100.00			750.000	750.000	U
		\$\$10	08/05/92	\$	Hanganose	96.67			1500.000	1450.000	U
		5810	08/05/92	\$	Hanganese	99.33			1500.000	1490.000	U
		\$\$10	06/05/92	\$	Sodium	101.00		_	1000,000	1010.000	U
		\$\$10	06/05/92	\$	Sodium	101.00		_	0000.000	20200.000	u
		\$\$10	08/05/92	\$	Sodium	96.25			0000,000	39300.000	U
		\$\$10	08/05/92	\$	Sodium	99.50		•	0000.000	39880.000	U
		\$\$10	06/05/92	8	Hickel	97.60			50.000	48.800	U
		8810	06/05/92	\$	Nickel	97.33			4000.000	5840.000	U
		55 10	08/05/92	\$	Hickel	94.17			2000.000	11300.000	
		\$\$10	08/95/92	\$	Hickel	95.83			2000.000	11500.000	
		2210	06/05/92	S	Zinc	103.25			40.000	41.300	◥
		5510	08/05/92	\$	Zine	95.60		_	7500.000	7170.000	7
		8810	06/05/92	\$	Zine	92.00			5000.000	13800.000	·
		2810	08/05/92	\$	Zine	94.67		1	5000.000	14200.000	U
3	ZZJ	2210	08/19/92	\$	Borium	101.00			10.000	10.100	U
		SE10	06/19/92	\$	Sarium	95.73			3750.000	3590.000	ŧ
		\$\$10	08/19/92	\$	Berium	97.87			7500.000	7340.000	- 1
		5510	08/19/92	8	Berium	98.27			7500.000	7370.000	
		\$\$10	08/19/92	\$	Calcium	102.00			1000,000	1020.000	ı
		SE10	00/19/92	8	Celcium	96.13			7500.000	7360.000	1
		5510	08/19/92	8	Celcium	99.33		•	5000.000	14900.000	1
		5510	08/19/92	\$	Calcium	99.33			5000.000	14900.000	
		55 10	08/19/92	\$	Cadmium	94.67			15.000	14.200	1
		5810	08/19/92	\$	Cadeium	95.50			2000.000	1910.000	(
		9810	08/19/92	\$	Cadaium	96.50			4000.000	3860.000	
		2010	06/19/92	\$	Codeism	96.75			4000.000	3870.000	}
		9810	08/19/92	\$	Cobalt	104.20			50.000	52.100	1
		9810	08/19/92	\$	Cobeit	95.00			20000.000	19000.000)
		9810	66/19/52	8	Cebelt	96.75			10000.000	38700.000)
		3810	00/19/92	8	Cobelt	%.73			.0000.0000	38700.000)
		2510	00/19/92	8	Chremium	87.80			10.000	8.780)
		3610	06/19/92	8	Chranium	95.00			2000.000	1900.000)
		2010	06/19/92	8	Chronium	97.00			4000.000	3880.000)
		9010	00/19/92		Chrenium	97.25			4000.000	3000.000)
		9610	86/19/92		Copper	96.50			20.000	19.300	
		9610	00/19/92		Copper	95.75			4000.000	3030.000	
		9610	00/19/92		Capper	. 97.75			8000,000	7020.000	
		8010	05/19/92		Copper	98.25			2000,000	7000.000	
		9810	00/19/92		Magnas fum	105.00			1000,000	1090.000	_
		8510	06/19/92		Hagnes full	97.67			7700.000	7340.000	

Notes for Bota Flags: 1 = Results less than CRL but greater than CED, it = Analyte required for reporting purposes but not ourrently cortified, X = Analyte resource outside of cortified range but within acceptable limits

Topele-Horth Phase I RFI Standard Matrix Sample Results

b	Lot	Test Method	Analysis Date	QC Test	Chemical Name	Result (%)	Data Flags	Data Qualifiers	Spiked Concen.	Recovered Concen.	Unit
	22.1	\$\$10 \$\$10	08/19/92	\$ \$	Hagnesium Hagnesium	98.00 98.67			15000.000	14700.000	UGL
			08/19/92	5					15000.000	14800.000	UGI
		\$\$10	08/19/92 08/19/92	5 S	Hanganese Managenese	103.00 95.60			10.800	10.300	UG
		\$\$10		\$	Hanganese Hanganese	97.33		_	750:000	717.000	UG
		\$\$10	08/19/92	-	Nanganese Managanese			•	1500.000		UG
		\$\$10	08/19/92	S S	Hengenese Sodium	97.33 105.00			1500.000	1460.000	UG
		8810	08/19/92	5 5		96.50			1000,000	1050.000	UG
		\$\$10 \$\$10	08/19/92	5 S	Sodium Sodium	97.00			20000.000	19300.000	UG
			08/19/92	_					40000.000	38800.000	UG
		\$\$10	08/19/92	5	Sodium	97.50			40000.000	39000.000	UG
		SS10	08/19/92	S	Nickel	95.00			50.000	47.500	UG
		\$\$10	08/19/92	\$	Nickel	95.00			6000.000	5700.000	UG
		\$\$10	08/19/92	\$	Nickel	95.83			12000.000	11500.000	UG
		\$\$10	08/19/92	S	Nickei Zine	96.67			12000.000	11600.000	UG
		\$\$10	08/19/92	\$	Zinc	%.25 % #			40.000	38.500	UG
		\$\$10	08/19/92	\$	Zinc	94.93			7500.000	7120.000	UG
		\$\$10	08/19/92	\$	Zinc	96.00			15000.000	14400.000	UE
		55 10	08/19/92	\$	Zine	96.00			15000.000	14400.000	UE
	ZZK	8510	08/13/92	\$	Serius	109.00			10.000	10.900	UE
		8510	06/13/92	5	Berium	97.60			3750.000	3460.000	UE
		\$\$10	08/13/92	\$	Berium	92.80			7500.000	6960.000	U
		5510	08/13/92	8	Serium	96.80			7500.000	7260.000	u
		2210	08/13/92	\$	Catcium	101.00			1000.000	1010.000	U
		\$\$10	08/13/92	\$	Calcium	99.20			7500.000	7440.000	u
		55 10	08/13/92	\$	Calcium	95.33			15000.000	14300.000	U
		\$\$10	08/13/92	\$	Calcium	98.00			15000.000	14700.000	UE
		\$\$10	06/13/92	\$	Cadmium	97.33			15.000	14.600	U
		SS10	06/13/92	\$	Cadnium	95.50			2000.000	1910.000	U
		SS10	08/13/92	\$	Cadnium	92.50			4000.000	3700.000	U
		\$\$10	08/13/92	\$	Cadmium	94.50			4000.000	3780.000	U
		\$\$10	08/13/92	\$	Cobelt	103.40			50.000	51.700	U
		5510	06/13/92	\$	Cobeit	97.00			20000.000	19400.000	u
		5510	08/13/92	8	Cobelt	92.50			40000.000	37000.000	U
		\$\$10	08/13/92	\$	Cobelt	95.75		•	40000.000	38300.000	U
		\$\$10	06/13/92	8	Chronium	103.00			10.000	10.300	u
		55 10	08/13/92	8	Chronium	97.00			2000.000	1940.000	U
		\$\$10	08/13/92	\$	Chronium	93.50			4000.000	3740.000	Ų
		\$\$10	08/13/92	\$	Chremium	96.50			4000.000	3840.000	u
		\$\$10	08/13/92	\$	Copper	104.00			20.000	20.800	u
		2510	06/13/92	8	Copper	95.50			4000.000	3820.000	U
		\$\$10	00/13/92	8	Copper	91.50			8000.000	7320.000	U
		\$510	06/13/92	8	Copper	94.75			8000.000	7580.000	U
		\$\$10	06/13/92	\$	Negrosium	97.80			1000.000	978.000	u
		5510	08/13/92	\$	Regnesium	100.13			7500.000	7510.000	U
		\$\$10	08/13/92	8	Negnosium	96.67			15000.000	14500.000	UK
		9610	06/13/92	8	Negrosium	99.33			15000.000	14900.000	u
		2210	00/13/92	8	Hangenese	97.50			10.000	9.730	U
		5610	06/13/92	8	Manganese	97.33			750.000	730.000	u
		8810	08/13/92	8	Manganose	93.33			1500.000	1400.000	u
		9610	08/13/92	8	Hanganese	96.67			1500.000	1450.000	u
		9610	06/13/92	8	Sedium	90.20			1000.000	702.000	u
		5810	00/13/92	8	Sodium	97.50			2000,000	19500.000	U

Notes for Data Flags: 1 = Results less than CRL but greater than CCD, R = Analyte required for reporting purposes but not currently contified, X = Analyte recovery outside of contified range but within acceptable limits

Tocolo-Morth Phace I RFI Standard Matrix Sample Results

Leb	Let	Test Nethod	Analysis Date	QC Test	Chemical Name	Result (%)	Data Flags	•	riked incen.	Recovered Concen.	Unit
ES	ZZK	8510	08/13/92	\$	Sodium	94.25		4000	0.900	37700.000	UGL
		2210	06/13/92	\$	Sodium	97.00		4000	0.000	38800.000	UG:
		\$\$10	08/13/92	8	Nickel	103.20		5	0.000	51.600	UGi
		\$510	08/13/92	\$	Hicket	97.17	_	- 600	0.000	₩630.000	UGL
		3810	08/13/92	\$	Hickei	92.50	•	1200	0.000	11100.000	UGL
		8810	08/13/92	\$	Nickel	95.83		1200	0.000	11500.000	UGI
		\$\$10	08/13/92	2	Zinc	111.50		4	0.000	44.600	UGL
		3510	08/13/92	S	Zinc	94.53		750	0.000	7090.000	UGL
		2210	08/13/92	\$	Zinc	91.33		1500	0.000	13700.000	UGL
		\$\$10	08/13/92	\$	Zinc	93.33		1500	0.000	14000.000	UGL
ES	ZZP	\$510	09/02/92	\$	Berium	113.00			0.000	11.300	UGI
		\$\$10	09/02/92	\$	Berium	96.27		379	0.000	3610.000	UGL
		\$\$10	09/02/92	S	Sarium	95.87		750	0.000	7190.000	UGI
		\$\$10	09/02/92	\$	Barium	96.53		750	0.000	7240.000	UG
		\$510	09/02/92	8	Codmium	92.00		1	5.000	13.800	UGI
		3510	09/02/92	\$	Codnium	93.00		200	0.000	1860.000	UG
		\$\$10	09/02/92	8	Codmium	93.00		400	0.000	3720.000	UGI
		\$510	09/02/92	8	Cadalus	94.25		400	0.000	3770.000	UG
		8810	09/02/92	\$	Chronium	86.60		1	0.000	8.860	UGI
		2510	09/02/92	\$	Chromium	95.50		200	0.000	1910.000	Ura
		2210	09/02/92	\$	Chromium	94.50		400	0.000	3780.000/	
		2210	09/02/92	\$	Chromius	95.75		400	0.000	3830.000	
		3510	09/02/92	\$	Copper	99.00			.000	19.800	1
		\$\$10	09/02/92	\$	Copper	95.25		400	0.000	3810.000	UG
		2510	09/02/92	\$	Copper	95.38		808	0.000	7630.000	UG
		2210	09/02/92	\$	Copper	96.63		800	0.000	7730.000	UGI
		2210	09/02/92	8	Manganese	112.00		1	0.000	11.200	UG
		2510	09/02/92	\$	Hangenese	95.40		75	0.000	717.000	UG
		2510	09/02/92	8	Hanganase	94.67		150	000.00	1420.000	UG
		2510	09/02/92	\$	Hanganese	95.33		150	0.000	1430.000	UG
		2510	09/02/92	\$	Nickel	98.00		5	10.000	49.000	UG
		2510	09/02/92	8	Nickel	95.67		600	0.000	5740.000	UG
	•	2810	09/02/92	8	Hickel	94.17		1200	20.000	11300.000	UG
		2210	09/02/92	8	Nickel	95.83		1200	20.000	11500.000	UG
		2610	09/02/92	\$	Zinc	111.75			.g.000	44.700	
		2510	09/02/92	8	Zinc	93.20			000.00	6990.000	
		2610	09/02/92	8	Zine	92.00			000.00	13800.000	
		3510	09/02/92	1	Zine	94.00		190	10.000	14100.000	UE

Appendix D



MONTGOMERY WATSON

APPEREELD

GROUNDWATER AND SURFACE WATER SAMPLING AND MEASUREMENT DATA

D.1 INTRODUCTION

D.1.0.1. This appendix presents measurement data generated during investigations of the groundwater and surface water at TRAD-N during the RFI field activities. The data included here pertain to the measurements of the physical characteristics of the subject groundwater and surface water, and do not include the analyzed chemical parameters. The analytical data are included in the data summary tables in Section 5.0 of this report, and also in Appendix K.

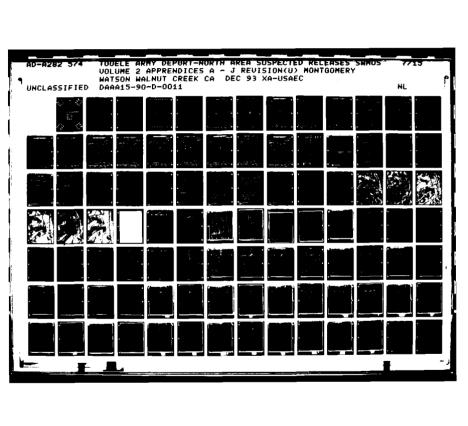
D.1.0.2. The data in this appendix are arranged as follows:

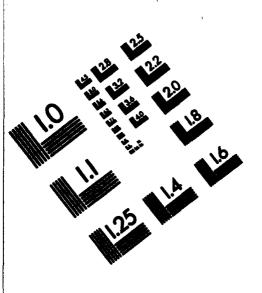
<u>Description</u>	Page
Groundwater/Surface Water Sampling Logs-SWMU 14	D-6 to D-17
Groundwater/S-urface Water Logs-SWMU 45	D-18 to D-20
Groundwater/Surface Water Log-SWMU 47	D-21 to D-22
Groundwater Elevation Measurement Data (Table D-1)	D-23

D.2 SCOPE OF INVESTIGATIONS

D.2.0.1. The scope of the RFI groundwater and surface water investigations during the project consisted of the following:

- Surface water sampling and measurement at the Sewage Lagoons, the Stormwater Discharge Area, and the Boiler Blowdown Discharge Areas (SWMUs 14, 45, and 47, respectively). A total of seven surface water samples were collected; two at the Sewage Lagoons, three at the Stormwater Discharge Area, and two from the Boiler Blowdown Areas.
- Two rounds of groundwater sampling and measurement at five monitoring wells near the Sewage Lagoons (SWMU 14)

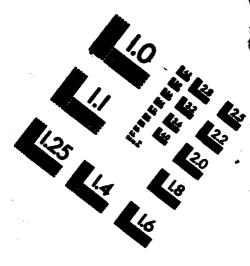




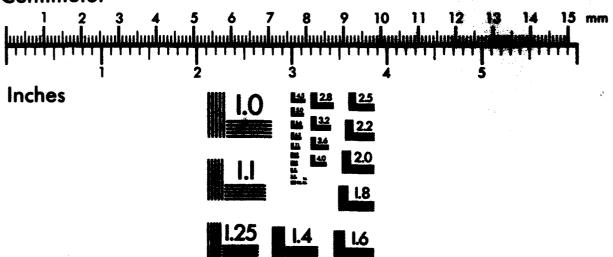


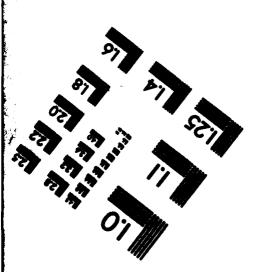
Accoolation for information and image itlanegement

1100 Wayne Avenue, Suite 1100 Silver Spring, Maryland 20010 301/587-8202

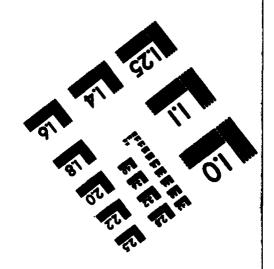


Centimeter





MANUFACTURED TO AIIM STANDARDS BY APPLIED IMAGE, INC.



 A facility-wide groundwater elevation investigation, which consisted of collecting groundwater elevations from wells located across the TEAD-N facility during the approximate groundwater seasonal high and low, and generating updated groundwater elevation contours from this data.

D.S GROUNDWATER/SURFACE WATER SAMPLING DATA

D.3.1. Description of Groundwater/Surface Water Sampling Log

D.3.1.1. The Groundwater/Surface Water Sampling Logs which are included in this appendix were completed in the field by JMM personnel at the time of sample collection. The logs consist of:

- Heading information which shows the sample location, date, sampling personnel, a brief weather description, and a measurement summary, which includes depth-to-water information
- The sampling summary, where the actual field measurements are recorded.
 Measurements made on the collected samples included pH, specific conductivity, temperature (*C.), dissolved oxygen (mg/L), flow rate (if applicable), organic vapor measurements (also required for health and safety reasons), and general comments regarding the water sample.
- Notations of the instrumentation and calibration solutions used
- Analytes for which the collected sample was submitted.

D.3.1.2. Sampling logs from all groundwater and surface water samples collected during the field work are included here. These consist of 10 groundwater and two surface water samples from the Sewage Lagoons (SWMU 14), three surface water samples collected from the Stormwater Discharge Area (SWMU 45), and two surface water samples collected from the Boiler Blowdown Areas (SWMU 47).

D.3.2. Summary of Groundwater and Surface Water Physical Characteristics

D.3.2.1. Groundwater. The five wells which were sampled at the sewage lagoons consisted of N-135-90, N-134-90, B-1, N-136-90, and A-3, Well N-136-90 was substituted for

well N-117-88, which appears in the project Data Collection Quality Assurance Plan (JMM, 1992), when it was discovered that N-117-88 has a pump stuck in the well. The locations of these wells in relation to the Sewage Lagoons is shown in Section 5.9 of this report (see Figures 5-9-1 through 5-9-4).

D.3.2.2. Results from the collected groundwater measurements from the Sewage Lagoon (SWMU 14) vicinity can be summarized as follows:

- The pH values of the groundwater near the sewage lagoons at SWMU 14 are generally neutral to very slightly alkaline. The measured values ranged from 7.6 to 7.8 during the July, 1992 sampling round, and from 7.0 to 7.1 during the February, 1993 round.
- 2. The specific conductivity, a measure of the type and concentration of dissolved constituents present, ranged from 1100 to 1820 μmhos. This range is typical for potable subsurface water, which usually ranges from 30 to 2000 μmhos. Sea water commonly measures 45,000 to 55,000 μmhos. The well showing the highest conductivity measurements (during both sampling events) is N-136-90, which is located up-gradient of the sewage lagoons and down-gradient of the sanitary landfill.
- The measured temperatures ranged from 13.7 to 18.5 °C during the summer,
 1992 sampling round, and decreased several degrees as measured during the winter, 1993 round. These temperatures ranged from 6.7 to 8.9 °C.
- 4. The dissolved exygen measured in the groundwater was over a range of 5.30 to 6.82 mg/L. The lowest dissolved exygen measurements were obtained for well B-1, which is down-gradient and proximal to the sewage lagoons.
- No organic vapors were detected in conjunction with the groundwater sampling.

D.3.2.3. Surface Water. A total of seven surface water samples were collected during the field investigation. As with the groundwater samples collected, the physical parameters were measured and recorded on the Sampling Logs. Surface water samples were collected from the Sampling Logs. Surface water samples were collected from the Sampling Logs. Surface water samples were collected from the Sampling Logs.

(SWMU 45), and baller blowdown collection areas at SWMU 47. Sample locations are shown under the respective SWMUs in Section 5.0 of this report.

D.3.2.4. Results of the measurement data from the surface water sampling can be summarized as follows:

- The pH values range from 7.77 to 10.6. The high figure was obtained from the boiler blowdown collection sample, which is not unusual. The remainder of the pH values range from 7.77 to 8.1.
- 2. The specific conductivity values show a range of 900 to 5,000 μmhos. As with the pH , the high, outlying measurement was obtained from the boiler blowdown effluent at Building 610. The low figure of 900 μmhos was obtained from surface water sampled at a discharge point west of Building 691 in February, 1993.
- 3. The temperatures measured during the summer 1992 are within a normal range expected from surface waters in the summer; they range from 18.6 to 24.3 °C. The exception again is the boiler blowdown water at Building 610, at 30.3 °C. An attempt was made during sampling of a discharge point west of Building 691 in February, 1993 to measure the temperature and pH of the sampled surface water, but the low temperature of the water put the field instrument out of range.
- 4. The dissolved oxygen measurements (with the exception of the boiler blowdown water) ranged from 2.05 to 6.25 mg/L, and were higher for the samples collected at the sewage lagrons. A value of 0.20-0.25 mg/L was measured for the boiler blowdown water sample at Building 610.
- No organic vapor readings above the detection limit were recorded during surface water sampling activities.

DA GROUNDWATER ELEVATION MEASUREMENT DATA

D.4.0.1. On June 9, 1982, JMM personnel conducted the first of two rounds of groundwater elevation surveys scheduled for the RFI, measuring the depth to water of 45 groundwater wells agrees the TRAD-N facility. This first round of measurements was conducted 9.

correspond to the expected seasonal groundwater high. A second round of measurements, scheduled for the expected seasonal low, was completed in late January, 1993. All measurements were made to the nearest 0.01 ft. (0.12 in.) using an electronic water level indicator, and were referenced to the top of the inside well casing. To minimize short-term groundwater surface fluctuations, all elevation measurements were conducted in a single 24-hour period during the June, 1992 round. However, due to the snow cover and associated access problems during the January round, measurements were completed in a 72-hour period.

D.4.0.2. The data generated from these measurements are shown in Table D-1. The groundwater elevation contour map generated from the groundwater measurements is included in this report in Section 2, as Figure 2-5.

D.4.0.3. The results of these groundwater measurements show an overall lowering of the groundwater surface across the TEAD-N facility by an average of about 8 to 15 feet, as compared with measurements prior to 1992. The change of groundwater levels from the seasonal high during the summer, 1992 to seasonal low in the winter, 1993 showed a general 1 to 2-foot decline of groundwater levels during the period.

GROUNDWATEN/SURFACE WATER SAMPLING LOG James M. Montgomery, Consulting Engineers, Inc.

			SWMU Number 14
· · · · · · · · · · · · · · · · · · ·			og Number <u>N /35 90</u>
Sampling Personnel 6 Houd Hand	Date 7/10/9	2 Weather	(Use: Well removed remove) GATH-T HOT (55-90)
MEASUREMENT SUMMARY: Calculated Purge Volume 202 gallo	ne Total Depth2	SS.5 Boreho	w_10 ^d
Depth to water 230.94 Tim	•	Measuring poin	4
Finel pH Fine	M SC	Final Temp(*C)	
SAMPLING SUMMARY:			
Casing evacuated with: Dedicated Pump			
Pump Staned 15:30 Pump Stopped_	Total gallons_	Individual Sa	mple Container
Time pH SC Temp	Flow rate (gpm)	DOME CO	mments
1536 7.19 1350 15.2	15 gal.	6.32 Da	me solviel, de
15:50 7.68 1380 14.7	40 and	6-18 chare	skektly
16:10 7.66 1830 Thank	80 00	5.95 clami	
16:40 7.57 1350 14.8	120 gel.	6.89 5	11.49 1 A 30 mes Jul
17:00 Sample	·		
7.62 1400 15.2	135m	5.53	
		·	
		<u> </u>	
	 		
			
		~	
			
			ميوسية المسيدة المسيدة المسيدة المسيدة المسيدة المسيدة المسيدة المسيدة المسيدة المسيدة المسيدة المسيدة المسيدة
INSTRUMENTATION: pH Motor: Orion	Cole-Parmer 🔲	Calibration Bullet	E4 🗆 7 🖺 10 🖫 📩
Specific Conductivity Me	ter: Merkson 🗀	YSI & Standard &	nicial PPA universe
SAMPLES COLLECTED AND TIME: Placed to	letals X Pasticlé	en Hankstone	Creste Y
VOCS /- Dioxine/Furans	Nigated	Nitrate and Phosphal	_ X
SVOCS 7 TRIPH X	AnionsX	Explosi	

GROUNDWATER/SURFACE WATER SAMPLING LOG James M. Montgomery, Consulting Engineers, Inc.

	SWMU Number <u>14</u>					
	og Number <u>N 134 90</u> (Une: Well nemerLog number) CLEAR THOT (EC 90)					
MEASUREMENT SUMMARY: Calculated Purge Volume gallons Depth to water 186.74 Final pH 3.59 Total Depth 208.27 Borehole Time 1435 Measuring point Final pH 3.59 Final SC 1560 Final Temp(°C)	TOC NORTH :					
SAMPLING SUMMARY: Casing evacuated with: Dedicated Pump Portable Submersible Pump Pump Started 10:40 Pump Stopped 1425 Total gallons 550 Individual Sam	Bailer K L'3 P					
Time pH SC Temp Flow rate (gpm) 156 mg. Com	nments					
	orange, muley					
12:05 7.77 1500 16.50 105 gal 5.99 No odae						
	sightly					
13:10 7.81 1500 16.6° 220 cm 6.07 No	change					
13:30 7.78 1490 16.6 300 med 5.95 white	other design det					
14:X 7.59 1500 16.6 350 24 5.64						
INSTRUMENTATION: pH Meter: Orion						
SAMPLES COLLECTED AND TIME: Filtered Metals X Pesticides Herbicides	Cyenide_X					
VOCSDioxine/FuransNitrate/Nitrate and Phosphate SVOCSTRPHAnionsExplosive	<u> </u>					

SA THE STATE OF THE SAME

GROSHOWATEN/SURFACE WATEN SUBPLIES LOG Jumes M. Moragomery, Consulting Engineers, Inc.

Sample Loc	ation	K)-14	Surface W	ater/Groundwater_	GW	Log Number	
Sampling P	ersonnei	BELL		Date_ 7/11/9	2	Weather Primer / h.	<u></u>
MEASUREI Calculated i Depth to wa Final pH	Purge Vol	ume 376	. Tin	16:30	*	Borehole Diameter	•
SAMPLING S	UMMARY	/ :					
			ated Pump	Portable	Submersii	ble Pump Bailer_/	<u></u>
Pump St	arted	Pump	Stopped_	Total gallor	18	Individual Sample Container	
Time	pН	SC	Temp	Flow rate (gpm)	DO	Comments	004
					_	tudie, rust when	
						changes slightly	
14 00		15.60	-14.5	_ <u> </u>	. >'		
1415	7.8	1240	13.7	300 gal	5.65	No change	4
						skan	
1635	7.8	1260	14.2	550 gal	5.30	<u> </u>	
					-	<u> </u>	
					-		
	**********	-	•				
	•				·		
INICTOI MACA	STATION!	all Mates	Oriena PSP	Cole-Parmer [bration Buffers: 4 🔲 7 🕏	B- 10 5
ing i númer		•		_			_
		Specific Co	nductivity M	leter: Madeen 🔲	YSI-	Standard Solution Less L	umhoe/cm
		*****			······································		
SAMPLES C	OLLECTE	ED AND TIM	E: Filtered I	Motals_X_Post	tides	_HerbicidesCyanide_	K_A
VOCS			Murane	Nhra	Militate	and Phosphate	
SVOCE	~	TR		Anione	₽ .	Explosives	

GROUNDWATER/SURFACE WATER SAMPLING LOG James M. Montgomery, Consulting Engineers, Inc.

		SWMU Number 14
Sample Location <u>A</u> 43	Surface Water/Groundwater 6 N	Log Number(Use: Well name/Log number) Weather
MEASUREMENT SUMMA Calculated Purge Volume Depth to water 230 Final pH	96.4 gations Total Depth 2-37:	Borehole Diameter -10" Measuring point Toc.No. Final Temp(°C)
Pump Started (Y)12	Dedicated Pump Portable Submer Pump Stopped Total gallons	Individual Sample Container
	C Temp Flow rate (gpm) 50	
	50 17.1 10 gd. 6.00.	
1476 77 12	80 16-1 30 gal 6-75	Verytailed +
15:45 ++ 17	20 16.3 50 gal. 7.24	change up slightly.
_	50 16.4 75 gal 7.87 50 16.3 130 gal 549	
		· · · · · · · · · · · · · · · · · · ·
Speci	leter: Orion	
SAMPLES COLLECTED AN	D TIME: Filtered MetalsPesticides	
SVOCS	_TRPHAnions/_	Explosives

GROUNDWATER/SURFACE WATER SAMPLING LOG James M. Montgomery, Consulting Engineers, Inc.

			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				SWMU Number	<u>/y</u>
•				pate			Og Number(Use: Well name/Log	number
- Caripaly r								
MEASURE Calculated Depth to we Final pH_	Purge Vol	ume(<u>\ </u>	_ Tierr	Total Depth_ne_12:06	M	eesuring poin	le Diameter/	ه''
SAMPLING S								
Casing e	vacuated t	with: Dedic	ated Pump_	Portable S	Submersib	ole Pump	Bailer_K	
Pump S	tarted	Pump	Stopped	Total gallon	IS	Individual Sa	mple Container_	
Time	рН	SC	Temp	Flow rate (gpm)	70	Co	mments	
9.50	7.2	1820	15.1	18	6.20	V	bid not col	
10:25	7.7	1830	15.5	70	6.72		tell tembed Soft	
			14.7		6.57	MC.		
12:50				19-0	·	pc		
			14.8	185	682	B NC	stell farly.	tarbid
	-							
								
					-			
					•			
					-			
INSTRUME	NTATION:	pH Meter:	Orion 🛚	Cole-Parmer] Call	bration Buffer	s: 4 🗆 7 🗖	10 E
		•	_	_			1/400	<u> </u>
		DO Y	edictivity M	eter: Markson 🔲	ASI EL	Standard S	OURON TOWN	noe/cli
	ALL EATE	D AND THE	E. Ellered A	Actals Posti		Herbicides	Cyenide	
O VOCS			re: rillarus i Murana					
Ser Acres				Anions		ne modern	T	

GROUNDWATER/SURFACE WATER SAMPLING LOG James M. Montgomery, Consulting Engineers, Inc.

	SWMU Number
Sample Location Location Surface Wate & Helden Surface Wate Sampling Personnel F. Maleron Sampli	Date 7/13/92 Weather HOT (20-35 AN
Depth to water Time	Borehole Diameter Measuring point SCFinal Temp(°C)
Pump Started Pump Stopped	Portable Submersible Pump Bailer Total gallons Individual Sample Container
	Flow-rate (gpm) OVM Comments
11:00 9.06 1720 18.7	5.41 Oppn
	CANAL MAR PARAMENT
INSTRUMENTATION: pH Meter: Orion (A) So Specific Conductivity Meters SAMPLES COLLECTED AND TIME: Filtered Me	Cole-Parmer C Calibration Buffers: 4 🗵 7 🗆 10 🗗 er: Markson 🗆 YSI 🕅 Standard Solution <u>(800</u> umhos/cm
VOCS K Dioxine/Furans	Nitrate/Nitrate and PhosphateK
SVOCS X TRPH	AnioneXExplosives

. 1942.012

GROUNDWATER/SURFACE WATER SAMPLING LOG James M. Montgomery, Consulting Engineers, Inc.

SWMU Number _ / 4 SENAGE Surface Water/Groundwater Sufficient Log Number SW-14-002 Sample Location Leterow (Use: Well name/Log number) B. HOLDER Date 7/13/92 Weather 1807 (250) CLERN Sampling Personnel Futal #3~ **MEASUREMENT SUMMARY:** ____ Borehole Diameter Total Depth___ callons Calculated Purge Volume_____ Measuring point_#67 Cour Depth to water____ Time Final SC__ Final Temp(°C)_ Final pH SAMPLING SUMMARY: Casing evacuated with: Dedicated Pump _____ Portable Submersible Pump _____ Bailer____ Pump Started_____ Pump Stopped____ Total gallons____ Individual Sample Container___ Temp Comments Time Device of the OVEL 18.6 6.25 70 Calibration Buffers: 4 12 INSTRUMENTATION: pH Meter: Orion 🔯 Cole-Parmer SAMPLES COLLECTED AND TIME: Filtered Metals X Posticides Herbicides Cyanide X Dioxine/Furans Nitrate/Nitrate and Phosphate VOCS SVOCS TRPH Anions Explosives

PROJECT NO. 2942.0120

GROUNDWATER/SURFACE WATER SAMPLING LOG James M. Montgomery, Consulting Engineers, Inc. N-135-42-Log Number Sample Location A' =1.75 -46 Surface Water/Groundwater_ Sampling Personnel Tow / 1364 Date 2-3-43 MEASUREMENT SUMMARY: Total Depth_253 Calculated Purge Volume_ 53 142c Measuring point_ Depth to water 231.7 Time . Final Terro(°C)__ Final pH 7.65 Final SC 1300 SAMPLING SUMMARY: Casing evacuated with: Dedicated Pump _____ Portable Submersible Pump ____ 75 Individual Sample Container_ Pump Started Pump Stopped Total gations Comments SC Flow rate (com) Time pH Temp it al ~ March Lt stoken Brown 7.07 1300 1450 1.01 1300 150 1.61 1250 2 3' ands ~ 9.D 7.12 1400 7.11 1350 : 350 .. 40 ml 7.08 /300 Calibration Buffers: 4 1 7 10 1 INSTRUMENTATION: pH Meter: Orion

Cole-Parmer (1) Specific Conductivity Meter: Markson 🔲 YSI 🖫 Standard Solution 1400 unthousem

SAMPLES COLLECTED AND TIME: Filtered Metals,	PostcidesCyenide
VOCSDlouine/Furans	Nitrate/Nitrays and Phosphate
SVOCSTRPH	Anions Explosives

GROUNDWATER/BUNFACE WATER BAMPLING LOG James M. Montpomery, Consulting Engineers, inc. Sis 14 N-134-90_ Sample Location N-134-47 Surface Weter/Groundwater GW Log Number __ (Une: Well nominate and Date 2-5-97 Weather Horn 30% Reace Sampling Personner De centions Total Depth 208.4 Borehole Diameter 41. "Comme .EHD Measuring Spirit Depth to water 199.41 Time 1350 Final pH____ Final SC__ Final Terror*C)___ SAMPLING SUMMARY: 151 Casing evacuated with: Dedicated Pump _____ Portable Submersible Pump _____ Baller_ Pump Started _____ Pump Stopped ____ Total gallons //> Individual Sample Container ____ SC Commerce Time pH Temp Flow rate (com) 6 24 1500 9.3° yellor - Prom. S. 119. 0925 6.86 1400 0935 0950 30 wals. 1450 1000 970 1400 7.40 /300 1005 1020 7.35 1400 750 1025 720 1350 700 = 115 4019 INSTRUMENTATION: pH Moter: Orion Cole-Permer C Calibration Buffers: 4 12 7 7 10 11 Specific Conductivity Meter: Markson 🔲 YSI 🕢 Standard Solution

SAMPLES COLLECTED AND TIME: Filtered Metals Posteldes

VOCS Dioxing/Furate Nitrate Nitrate and Phosphase 1/

Anions .

Explosives

CHECT NO.

SVOCS

James M. Montgomery, Consulting Engineers, Inc. Surface Water/Groundwater 6W Log Number Sample Location A - 3 (Use: Well name use m Weather Horn 20'-15" 6 Date 7-5-63 MEASUREMENT SUMMARY: gallons Total Depth 239-5 Borehole Diameter 5 Cos-Calculated Purge Volume 48 Measuring point___ Depth to water 23/ 2 Time 1210 Final Temp(°C)__ Final DH 1.0: Final SC 12 CC 151 SAMPLING SUMMARY: Casing evacuated with: Dedicated Pump _____ Portable Submersible Pump ____ Pumo Started_____ Pumo Stopped____ Total gations____ Individual Sample Container_ Comments Time pH SC Temp Flow rate (CDITI) 1240 1700 7.05 12.00 INSTRUMENTATION: pH Meter: Orion

Cole-Parmer
Calibration Butters: 4 9 7 9 10 0 Specific Conductivity Meter: Markson 🔲 YSI 🐼 Standard Solution SAMPLES COLLECTED AND TIME: Filtered Metals VOCE **Distinuturane** SVOCS Anlone

GROUNDWATER/SURFACE WATER SAMPLING LOG

GROUNDWATENBURKEE WATER BASELING LOG James M. Montdomery, Consulting Engineers, Inc. Surface Water/Groundwater / W Sample Location 13-1 Log Number (Use: Well names at 8 Weether Char RO'F Haze Sampling Personnel Dir Date 3-4-43 MEASUREMENT SUMMARY. Total Depth 303 Barehole Diameter gallone Calculated Purpe Volume 495 Depth to water 705.47 Magazine Doitt Time Final SC ___ Final Terro(°C)___ Final oH 1.03 SAMPLING SUMMARY: Casing evacuated with: Dedicated Pump _____ Portable Submersible Pump _____ Pump Started_____ Fump Stoopeg____ Total gallons____ Individual Sample Contamer_ Comments Time bН SC Temp Flow rate (cottt) Jostal Water chil 1615 7.18 1200 1250 1250 55 cals. 110 nots = 200 gals. = 300 galo = 400 and s 7.03 1230 6.7 = 500 ooks INSTRUMENTATION: pH Motor: Orion

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Permer

Colo-Per Specific Conductivity Meter: Markson 🔲 YSI 🖫 Standard Scholon 🚧 understand SAMPLES COLLECTED AND TIME: PI VOCE SVOCE

GROUNDWATER/BURFACE WATER SAMPLING LOG James M. Montgomery, Consulting Engineers, Inc. Sumi 14 N-136-40 Log Number _ (Use: Well next Sampling Personnel ~ / RKH Date 2-3-45 Weather / See 30 P MEASUREMENT SUMMARY: Total Depth 255-40 cellone Calculated Purge Volume <u>444/7</u> Measuring point__ Time //cc Depth to water = 340-201 Final SC 1750 Final oil Final Terror*C)___ SAMPLING SUMMARY: Casing evacuated with: Dedicated Pump _____Portable Submersible Pump ____ Pump Started Pump Stocoed Total gations Individual Serrore Container Temp : Flow rate (gpm) Commerces Time DН SC 7.19 732 -7.4 1120 15 mm. 125 250 19 121 1800 25 ...7. 1800 8.C Sc sal 1750 60 and INSTRUMENTATION: pH Meter: Orion
Cole-Permer C Calibration Bullett: 4 7 7 10 10 Specific Conductivity Meter: Mericson 🔲 YSI 🖫 Standard Solution 🙌() similarism SAMPLES COLLECTED AND TIME: Flored Motion /

VOCS_

GNOCKOWATERVIOUSFACE WATER SAMPLING LOG James M. Montgomery, Consulting Engineers, Inc.

Calculated Depth to wa	nter	MMARY:	. Tier	1050	Measuring point Final Temp(°C)			
Casing e	MPLING SUMMARY: Casing evacuated with: Dedicated Pump Portable Submersible Pump Bailer_							
•				Total gallons	Individual Sample Container Comments			
					Comments			
10.30	_184	105.0	41.0	UPPM				
								
		·						
	•							
	•							
		*						
INSTRUME	NTATION:	pH Meter: (Orlan 🖭	Cole-Parmer 🔲	Calibration Buffers: 4 🔲 7 👫 10			
				nton Manton	H & Standard Solution 1000 unthose			

GROUNDWATER/SURFACE WATER SAMPLING LOG James M. Montgomery, Consulting Engineers, Inc.

i				SWMU	Number 45
	Sampling Personnel			بالكا مصحة ال	che to
	MEASUREMENT SUMMA Calculated Purge Volume_ Depth to water	gallons Time	Total Depth ID>45 SC	Borehole Diame Measuring point <u>Edgs or</u> Final Temp(*C)	ter
				nersible Pump 8	
70				Individual Sample Co	
DO 1.25	Time pH S	100 - 22.0	Oppm	Continents	
			-		
	INSTRUMENTATION: pH M	eter: Orion 🏋	Cole-Parmer	Calibration Bullers: 4 🗍	7 10
· h A2.0120	Specif Do mais	ic Conductivity Med	er: Markson 📋 Y8	Standard Solution 1	oo umhaalam
1	SAMPLES COLLECTED AN				enide
•	VOCS X D		MirateAlli	rate and Phosphate	
ğ	SVOCS X	_TRPH	Anions	ExplosivesX	
_					

GROUNDWATERONATURNOS WASHINGSHOPLING LOG James M. Montgomery, Conculting Engineers, Inc.

					Log Number(Use: Well nameta	
Sampling Po	ersonnel	500/		Date7/9/9	2 Weather close / Hot	1000
MEASURED Calculated F Depth to wa Final pH	ourge Volu	me	Tim	10.55	Borehole Diameter Measuring point Final Temp(°C)	
SAMPLING S						
					nersible Pump Bailer	
					Individual Sample Container_	
				Flow Fato (gpm)	Comments	
10:55	7.22	1100	24.3	Deam		
	-					
						يسيوسن
در برانسانسانیه						
						
						
سوسورينده ،	-					
	-			-		
						
INSTRUMEN	TATION: p	H Mater: C	Orton 🔏	Cole-Parmer []	Calibration Buffers: 4 2 7/2	10
	. 8	edile Con	ductivity Ma	Her: Markeon 🔲 YS	I Standard Solution (3/7) un	thoele
		NO me	- Y57	4/ 5799		
SAMPLES CO	LLECTED	AND TIME	: Filtered M	letalsPesticides	HerbicidesCyenide	ئيم الدين الواقعة الدين الواقعة الدين الواقعة الواقعة الواقعة الواقعة الواقعة الواقعة الواقعة الواقعة الواقعة الواقعة الواقعة الواقعة الواقعة
VOCE	*	Dioxino	Furans	Missiadille	rate and Phosphate	

GROUNDWATER/SURFACE WATER SAMPLING LOG James M. Montgomery, Consulting Engineers, Inc.

		SWMU Number <u>47</u>
	Surface Water/Groundwater 5 ~ 1 / From Date 7 / 14/92	(Use: Well name Log number)
MEASUREMENT SUMMAR Calculated Purge Volume Depth to water Final pH	gallons Total Depth	Borehole Diameter Measuring point Final Temp(°C)
•	Dedicated Pump Portable Submer	
Time pH SC	Temp Flow rate (gpm)	Comments 7
9:48 10.6 50		
Specifi D. e. y	-	
VOC8XD	Interest Interest	

GROUNDWATENBUNGACE WATER SAMPLING LOG James M. Montgomery, Consulting Engineers, Inc.

		SW-47-002
Sample Location Sixi-47-cc 2 Sampling Personnel District	Surface Water/Groundweser_	
-		
MEASUREMENT SUMMARY: Calculated Purge Volume Depth to water Final pH	Time //.3c	Measuring point Weller Finel Temp(*C)
SAMPLING SUMMARY:		
		Submersible Pump Beller
Purito Started Puri	no Stooped Total galo	ins Individual Semple Container
Time pH SC	Temp Flow rate (gpm)) Comments
1630 - 70m	<u> </u>	Too Cill to MITany to hunter.
	- — ·	
		
		
	 	
3		Calibration Bullers: 4 2 7 7 10 []
Specific	Conductivity Motor: Markson	YSI & Standard Solution //// unthousen
SAMPLES COLLECTED AND 1	TIME: Filamet Mateix Per	studes Heddeldes Cyantide
VOCEDles	dine/FuransN	reletificate and Physphath
svocs	TRIPHAnions	Explosives

Table D-1
TEAD-N GROUNDWATER ELEVATION DATA

WELL No.	DEPTH TO WATER June 1982	DEPTH TO WATER James y 1800	MEASURED POINT ELEV.	ELEV. SOURCE	VATER TABLE ELEV. Jame 1982	TABLE ELEV. James y 1988	CEANG (FT)
15-367	120.8	140.45	4457	•	438	4397	-1
B-1	204.85	205.9	4000.26		4478.41	4474.36	-1.00
3-2	343.47	343.36	4615.65		4473.18	4472.87	-0.81
34	174.66	175.06	4645.80		4471.22	4670.22	-1.00
34	226.8	(200.01)	4587.93		4961.13	(4318.92)	-42.2
B-7	230.42	222.21	4007.74		4578.12	4375A3	-2.00
B-0	276.86	279.53	4651.97	•	4578.11	4275.44	-2.67
B-10	Not Measured		4681.7	•		4465.27	
B-11	Not Measured		4500.53	•		4374.06	
B-12	260.15	202.23	4500.5	•	4319.35	4317.17	-2.10
B-23 B-34	Not Measured		4623.44	•		4467.74	
P-2s	274.42	308.26 Not Measured	4001.05	•	4578.22	4878.59	-2.78
B-26	Not Measured	206.45	4780.67 4608.57		4476.25		
B-20	219.82	221.76	4626.91		4214.00	4332.12	
B-22	189.66	191.16	4502.67		4312.99	4314.16	-1.93
B-36	Not Measured	186.78	4634.12		4812.90	4311.51	-1.48
B-40	182.8	154.14	4461.85		4200.05	4467.34	• •
B-41	106.15	167.66	4478.45		4313.3	4307.71 4310.79	-1.30
B-44	131.54	139.99	4435.16	:	4202.62	4302.04	-1.51
B-46	121.98	123.57	4425.14	:	4212.14	4311.57	-0.78
B-47	112.22	172.02	4414.67		4202.44	4301.75	-1.60
B-46	101.78	103.45	4434.22	-	4212.54	4310.87	-0.61
B-63	183.35	184.75	4406		4212.65	4311.25	-1.67 -1.40
B-64	214.55	216.61	4788.62		4474.04	4473.11	-0.95
N-Sh	240.25	241.97	4716.78	ā	4478.48	4474.76	-1.72
N-110-88	208.22	230.38	4786.11	-	4477.79	4475.00	-1.00
N-111-08	234.40	226.04	4005.21	ē	4480.82	4479.27	-1.66
N-112-06	322.05	332.25	4001.38	e	4479.23	4478.03	-1.30
N-114-06	315.9	230.00	4797.82	e	4478.92	4677.83	-1.10
N-116-66	277.08	Not Measured	4788.23	e	4470.2		
N-118-66	234.4	225.81	4713.61	e	4479.21	4477.80	-1.41
N-127-86	228.28	220.94	4705.34	c	4477.01	4475.40	-1.61
N-126-66	227.95	Not Monsured	4704.93	c	4476.98		
N-120-86	230.22	231.84	4707.08	e	4476.81	4475.19	-1.63
N-181-60	218.2	219 <i>A</i> 7	4002.70	Ъ	4474.00	4473.32	-1.37
N-122-00	217.26	218.67	4002.5	Ъ	4475.12	4472.83	-1.99
N-188-80	342.88	344 .41	4716.63	b	4673.81	4472.22	-1.50
N-134-60	106.23	187.40	4657.97	b	4471.84	4470.57	-1.07
N-135-00	230.4	231.60	4707.17	b	4478.77	4475.48	-1.50
N-136-60	200.71	240.30	4734.78	b	4478.07	4474.06	-1.30
N-137-00	315.45	315.75	4673.19	Ъ	4367.74	4357.44	-0.30
N-130-00	206.45	286.76	4058.05	b	4387.A	4397.00	-0.31
N-120-00	201.05	265.17	4675.34	b	4200.40	4300.17	4.33
	Not Monoured	276.76	4888.74			4319.96	
P-15	227.71	234.90	4520.00		4311.33	4314.13	+2.51
P-19	198.77	196.57	4504.63		4330.86	4300.06	-1.80
P-21	202.00	226.21	4502.2		4219.37	4536.00	-2.30
	Not Measured	151.00	4454.38			4908.17	
	Not Measured	394.70	4655.48	4		4470.78	
WW-4	>600	611.00	8000	•	44130	4886	
WW-6 Booologe 1	218.57 Mark Market	819.0	4700	•	4441.68	4441.0	-0.63
	Not Mossured	496.00	4040	•		4638.5	
	Not Measured	440.50	4040	•		4401.1	
Totaletti Januari	400.6	478.00	4877 GB, 1902		4460.4		+81.6

USGA,1902
 Inc. from J.D. Engineed, Tooole City Engineer
 Probable measurement error

el from USGS maps

Appendix E

MONTHOUSEY WAS SHOE

APPENDIXE

GEOPHYSICAL SURVEY RESULTS

E.1 INTRODUCTION

E.1.0.1. Presented in this appendix is the final report prepared by Practical Geophysics, Inc., of Salt Lake City, Utah, pertaining to the geophysical investigation at the OB/OD Area of TEAD N. This investigation was conducted at the Burn Pad (SWMU 1b) and the Trash Burn Pits (SWMU 1c) with the objective of defining the location and presence of debris in buried trenches and pits, historically used for the open burning and/or burial of material, utilizing geophysical means. This allowed accurate siting of test pits to investigate these subsurface features.

E.1.0.2. The report presented herein consists of an introduction, a description of the methodology and equipment, and conclusions and recommendations regarding the effectiveness of this survey. Appended to the report are copies of the composite aerial photographs used for location, survey data, and field notes kept by the geophysical field personnel.

E.1.0.3. Practical Geophysics, Inc. fielded two personnel for the geophysical field investigation.

E.2 SCOPE OF GEOPEYEICAL INVESTIGATION

E.2.6.1. The scope of the geophysical investigation at the OB/OD Area during the RFI field effort there consisted of the following activities:

- Compiling a composite map of historic excavation images at the Burn Pad and the Trach Burn Pits from six generations of serial photographs, ranging from 1992 to 1997
- Using a total station surveying instrument to turn angles and set distances from set reference points to establish the locations of the image centers from the

- Utilizing a GEM Systems model GSM-8 field magnetometer to confirm the locations of the burial features containing iron and steel debris
- Using a Geonics Ltd. Model EM-31 soil conductivity measuring system to locate contrasts in soil conductivity between undisturbed native soil and the disturbed soil associated with the burial features noted on the aerial photographs
- Staking the soil conductivity and magnetic anomalies, allowing the later siting of the excavation test pits.

R.3 SUMMARY OF RESULTS

E.3.0.1. The results of the geophysical activities at the OB/OD Area are summarized as follows:

- A total of 41 historic excavation features at the Burn Pad (SWMU 1b) and the Trash Burn Pits (SWMU 1c) were identified on the composite photo images.
 These features were sited on the ground using standard surveying methods.
- An additional eight sites were identified on the ground during investigation activities, making a total of 49 potential excavation features.
- Soil conductivity and ground magnetic traverses effectively confirmed the
 presence of most of the previously-located sites, and allowed for improved
 accuracy in defining locations for the subsequent excavation test pit
 investigation.

AERIAL PHOTOGRAPHIC DELINEATION AND GEOPHYSICAL CONFIRMATION OF PITS AND TRENCHES IN THE OPEN BURNING/OPEN DETONATION AREA (Solid Waste Management Unit Number 1) TOORLE ARMY DEPOT, NORTH AREA, UTAH

JMM Job No.: 2942.0110

Contract No.: DAAA15-90-0011

Task Order 4

October, 1992

Prepared for

J M Montgomery, Consulting Engineers, Inc.

Prepared by
Practical Geophysics, Inc.

THE OF CHILD

		• .											٠,					*		*,			Page
List	07	ILLU	STRAI	lons	•	•	•	• •	 •	•	•	•	:	•	•	•	•	•	•	•	•	•	ii
INT	ODUC	TION:		•	•	•,	•	• •	•	•	•	•	•	•	•	•	•	•	•	• -	•	•	1
COMP	osi:		CAVAI	TON	10U	43	H	IP.	•	•	٠.	•	•	•	•	•	•	•	•	•	•	•	2
geof	HYS:	ICAL :	POLIC	W-UP	10	1.0	OD(OLO	GY	A	ID	P	DO		Œ	P.E.	В.	•	N	•	•	•	4
COSTC	LUS	tons .	AND I	ECON		DA:	TI(osty	•	•	•	. •	•	•	•	•	•	•	•	••	•	•	8
APPE	NDI	CES																					
	λpı	pendi	x A.	Bea	ris ge	gs Ce	a: nt	nd eru	Di	st:	e Di	De :	s 1	to •	E:	· (Ci	Bai	nt:	Los •	•	•	•	9
)	nend (Y R.	Geo	mhu	re i	3a'	1 1	1-	14	-	nt.	-		_	_	_						10

LIST OF ILLUSTRATIONS

- Figure 1. OB/OD Area 1952.
- Pigure 2. OB/OD Area 1959.
- Figure 3. OB/Od Area 1966.
- Figure 4. OB/OD Area 1978.
- Figure 5. OB/OD Area 1985.
- Figure 6. OB/OD Area 1987.
- Figure 7. Excavation Images 1952 to 1987 Composite Map.
- Figure 8. Excavation Image Location Technique.
- Figure 9. Schematic Excavation Image Typical Geophysical Confirmation Response.

INTRODUCTION

Sampling of waste burial pits and trenches at the Open Burning/Open Detonation (OB/OD) area, Solid Waste Management Unit (SWMU) Number One within the Tooele Army depot, North Area (NTEAD) was supported by review of historical air photos to identify probable excavation sites, which were then field checked using geophysical methods to confirm their presence.

Aerial photographs of the presently inactive OB/OD area, taken over the period of years from 1952 to 1987, show evidence of at least 41 excavations, which have since been substantially obliterated by releveling of the surface and by vegetation.

This report documents the procedures used to develop a composite map of the excavation images from a compilation of six generations of air photos of the OB/OD area, the procedures used to locate the center of each image in the field, and describes the geophysical methodology and procedures used to test for anomalous geophysical characteristics associated with the probable excavations to help confirm their locations.

COMPOSITE EXCAVATION IMAGE MAP

The purpose for compiling the composite overlay of the historic excavation images in the OB/OD area was to insure that substantially all pits and trenches were accounted for and to minimize the geophysical field effort required to confirm their locations.

Six generations of air photos, each consisting of stereographic photo pairs, for the years 1952, 1959, 1966, 1978, 1985 and 1987, were used to construct a composite map of all identifiable excavation images in the OB/OD area (Figures 1 through 6). These photos were obtained from the U.S. Department of Agriculture, Agriculture Stabilization and Conservation Service, Salt Lake City, Utah. Identifiable field points (road intersections, fence corners, etc.) common to all six generations of photos were located on site. Horizontal distances between these points and their respective elevations were used to photogrametrically rectify each generation's stereophoto pair to an accurate orthophoto at a scale of 1 to 6000 (1 inch equals 500 feet).

The composite map of the identifiable excavation images from each of the six generations of identically scaled orthophotos was then constructed, Figure 7. A reference point and a reference line were established on the composite map, which could be located and established in the field. A primary reference point was located in the southeastern corner of the OB/OD area at the intersection of a north-trending road with the E-W inner-boundary road, Figure 8. The reference line was established as a line from this point through the section corner (brass cap) common to Sections 1 and 12, T.4S, R.6W., and Sections 6 and 7, T.4S., R.5W., Salt Lake Base and Meridian, located six feet south of the E-W boundary fence. A horisontal angle measured clockwise from

this reference line to a line drawn from the reference point through the center of each excavation image established bearings to their respective centers. The distances from the reference point to their respective image centers were scaled directly from the composite map. An alternate reference point, located on the center line of the culvert at the mid point of the road crossing Box Elder Wash was established to maintain line-of-site between the survey instrument and the northernmost excavation images.

Appendix A contains a list of the bearings and horizontal distances to the 41 identifiable excavations from their respective reference lines and reference points. A total station surveying instrument was set up at the reference points and a zero horizontal angle was established by sighting along the reference line to the section corner brass cap. Horizontal angles from this reference line were turned clockwise and the horizontal distances to each image center were surveyed to determine their respective locations in the OB/OD area.

Given the 1 inch equals 500 feet scale of the orthophotos, scaled distances from the reference points to the excavation image centers were measured to an accuracy of ±5 feet. This accuracy was considered sufficient to insure that the image centers would be located within their respective outlined areas.

Field evidence from the geophysical follow-up work indicates than 39 of the 41 bearings and distances used to locate the excevation site centers fell within their actual outlines. Geophysical anomalies associated with images 59-5 and 59-6 were found 15 to 20 feet further north than their surveyed center locations. Since the minimum dimension of most all image outlines and since geophysical cross profiles were surveyed a radial distance of at least 50 feet from the image centers, errors in computed locations of 15 to 20 feet were acceptable.

In addition to locating the 41 excavation sites identifiable on the air photos, eight sites, obscured by adjacent excavations, were also discovered. Excavated material from the series of N-S trenches appearing on the 1978 orthophoto, images 21 through 29 on Figure 7, was apparently placed over adjacent trenches. The 1978 photo shows trenches spaced approximately 100 feet apart. Geophysical field evidence indicates that trenches are actually located 30 to 50 feet apart across this zone. Rather than the nine apparent trenches at a 100 foot spacing, field evidence indicates 17 trenches in the area between images 21 and 29.

GEOPHYSICAL FOLLOW-UP METHODOLOGY AND FIELD PROCEDURES

The selection of geophysical follow-up methods was based upon consideration of the probable physical property contrasts between undisturbed soil and the back filled contents of the pits and trenches as well as the change in local soil resistivity at the perimeter of the pits and trenches caused by baking of the soil during burning of the waste material.

The Geonics Ltd. soil conductivity measuring system, Model EM-31, was used to locate contrasts in soil conductivity between the undisturbed native soil and: 1) the generally disturbed backfill material in the excavations, 2) baked soil resulting from open burning in the excavations, 3) conductive material disposed in the excavations, e.g., metal banding and other waste metal, and 4) groundwater trapped in the excavations by the impermeable native soil (clay lakebed sediments). An excavation in the impermeable lakebed clays was expected to possibly retain relatively larger amounts of surface water since the backfilled material would be a more permeable mix of disposed material plus disturbed native soil.

The EM-31 consists of a signal transmitting coil and a signal receiving coil held rigidly on a boom with an intercoil spacing of 12 feet resulting in an average exploration depth of about 15 feet. Since the disturbed surface of the OB/OD area has been releveled, the upper one to two feet consists of mixed soil. The EM-31 effectively sees through this electrically homogeneous layer and responds to conductivity contrasts related to the above described conditions associated with the deeper excavations.

Due to the high clay content of the lakebed sediments comprising the upper one to two feet of mixed soil, the ability of ground penetrating radar to see through this layer was considered doubtful. Use of the EM-31 was considered, and

proved to be, a more effective and less costly alternative method.

The EM-31 is calibrated so that a given signal strength measured at the receiving coil from a constant signal strength transmitted by the transmitting coil is read directly as the bulk conductivity of the volume of soil between the two coils. This volume, consisting of the search depth of approximately 15 feet, the intercoil spacing of 12 feet, and a search width of at least six feet, is about 1100 cubic feet of material. Conductivity readings are taken in an essentially continuous mode, giving a continuous soil conductivity profile. The instrument was moved slowly along the primary traverses across an excavation site until a detectable change, if any, was noted. Since the contents of and purpose for (simple burial, burn or detonation) a given excavation was not known, its possible soil conductivity signature was unpredictable. In fact, a wide range of soil conductivities was measured over the various excavation sites, varying from values lower than the undisturbed soil, to very high conductivities generally coincident with anomalously high magnetic readings to complex anomalies of both low and high conductivities relative to the undisturbed soil value.

Anomalously high conductivities coincident with magnetic highs were thought to be associated with massive concentrations of metal banding and other scrap iron and steel objects. The complex conductivity anomalies have characteristics attributed to

a traverse from undisturbed native soil average conductivity to locally low conductivity associated with baked soil on the pit or trench margin, to high conductivity in the central pit or trench area associated with the buried contents. Figure 9 shows the typical complex soil conductivity profile observed over some of the excavation sites.

The expected presence of iron and steel scrap suggested the use of ground magnetic measurements to help confirm the location of those excavations containing such material. A GEN Systems model GSM-8 proton precession magnetometer was used to measure local variations in the Earth's total magnetic field strength caused by local diasal of iron and steel waste. On-site geologic material is non-magnetic so any local variations in the total magnetic field strength can be directly attributed to the presence of iron and steel waste.

The GSN-8 measures to an accuracy of one gamma change in the local total field strength, about 54,500 gammas. A one pound mass of iron located five feet below the magnetometer sensor generates an approximate eight gamma anomaly in the presence of this total magnetic field. As an example of this instrument's sensivity to scrap metal, initial investigation of the 52-1 excavation site discovered an isolated approximately five pound piece of iron shrapnel buried one foot below surface in the roadside berm, which generated a forty gamma anomaly.

When a given excavation location was confirmed by anomalous geophysical readings, the most anomalous reading points within the excavation outline were flagged, blue flagging for conductivity anomalies and orange flagging for magnetic anomalies. These maximum observed anomalies were detected by taking grid measurements in addition to the primary traverses within the confirmed excavation outline. By detecting and flagging specific anomaly maxima in this manner, sampling of the contents of a given excavation site at these flagged points help to insure that a meaningful sample would be obtained.

Appendix B contains the actual field notes taken at each of the excavation image sites investigated by geophysical follow-up. In most all cases anomalous geophysical response was noted within a given outlined area. In some cases, a suspected excavation site had no definitive geophysical response. The only direct evidence for such sites was a local surface depression possibly caused by settling of the backfilled material and the presence of burned wood. In all cases, some evidence for the former presence of a pit or trench was found in the immediate vicinity of the excavation image center.

CONCLUSIONS AND RECOMMENDATIONS

The task of testing the contents of waste disposal pits and trenches within the OB/OD area, which measures roughly 4,000,000 square feet overall, was facilitated by compilation of excavation

images evident on six generations of aerial photographs dating from 1952 to 1987. Leveling of the surface in the excavated areas and natural revegetation have essentially obliterated most of the excavated sites. The composite map of 41 such images substantially reduced the task area to about 10 percent of the overall area. This reduction in area allowed for more effective and efficient use of geophysical follow-up methods to help confirm the presence of the obscured excavations.

Soil in the OB/OD area consists primarily of clay-rich lakebed sediments, which preclude the use of ground penetrating radar since its search depth is severely limited by the presence of clay. Soil conductivity and ground magnetic surveys effectively confirmed the presence of most of the 41 sites, whereby either anomalous soil conductivities and/or magnetic readings were found within a given excavation outline.

The effectiveness of the overall approach used in locating excavations in the OB/OD area could be improved by a more thorough search of aerial photo archives. This search may require several weeks to several months to actually locate and obtain all available photos for a given area. The more complete the photo record of excavation activity at a given site, the greater the success in recovery of all excavation sites.

It is assumed that the results obtained by the above described approach for the present task area were both effective and efficient.

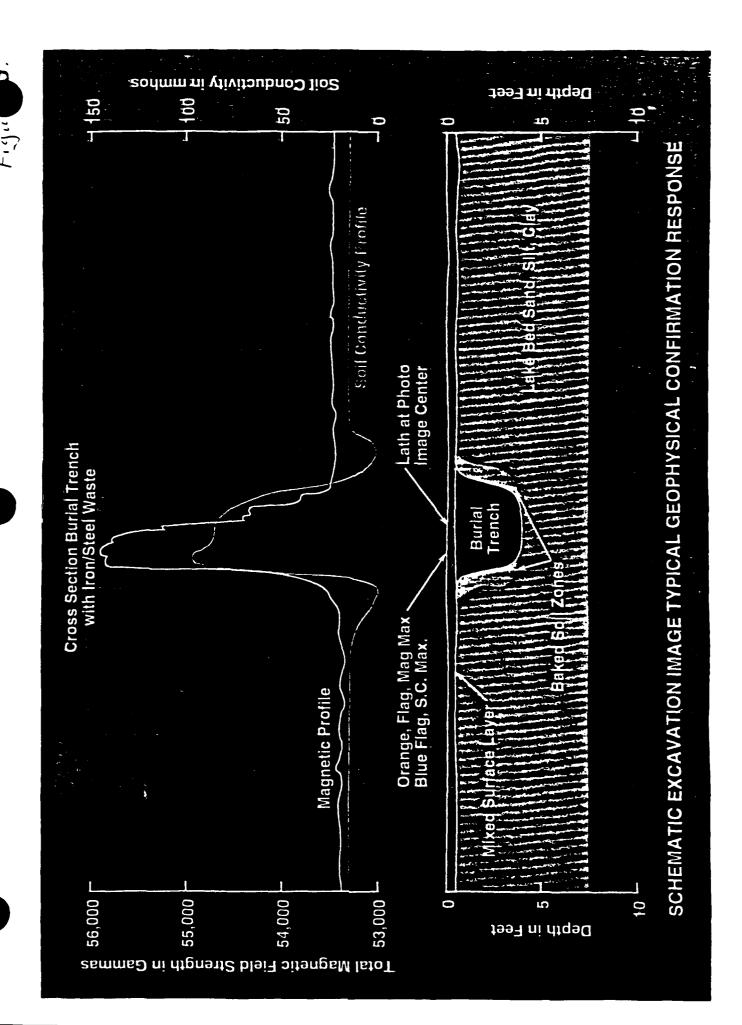












APPENDIX A
Bearings and Distances to Excavation Image Centers

52-1	IMAGE YEAR- NUMBER	BEARING FROM REFERENCE LINE	DISTANCE FROM REFERENCE POINT	REFERENCE POINT
52-2	52-1	15° 54' 27"	2070'	Road Intersection
59-3 32° 33° 24" 2314' " " " " " " " " " " " " " " " " " " "	52-2			* * **
59-5 42° 48° 34° 2590° " " " " " " " " " " " " " " " " " " "	59-3	32° 33' 24"	, " = =	• •
59-5	59-4	36* 54' 59"		
59-7 42° 42' 07" 2204' " 59-8 N end 74° 49' 31" 2808' Culvert 59-8 S end 77° 23' 11" 2198' " 59-9 44° 55' 01" 2436' Road Intersection 59-10 35° 19' 43" 2231' " " 59-11 46° 03' 20" 2111' " " 59-12 31° 59' 16" 1727' " " 59-14 39° 53' 58" 2346' " " 66-15 74° 49' 31" 2808' Culvert 66-16 75° 16' 42" 2676' " 66-17 75° 44' 35" 2518' " 66-18 76° 31' 23" 2360' " 66-19 77° 23' 11" 2198' " 66-20 43° 11' 01" 2521' Road Intersection 78-21 34° 01' 00" 2190' " " 78-23 39° 46' 12" 2056' " " 78-24 42° 17' 00" 2014' " " 78-25 44° 16' 01" 1934'	59-5	42* 48' 34"		• •
59-8 N end 74* 49* 31* 2808* Culvert 59-8 S end 77* 23* 11* 2198* " 59-9 44* 55* 01* 2436* Road Intersection 59-10 35* 19* 43* 2231* " 59-11 46* 03* 20* 2111* " " 59-12 31* 59* 16* 1727* " " 59-13 40* 56* 12* 1946* " " 59-14 39* 53* 58* 2346* " " 66-15 74* 49* 31* 2808* Culvert 66-16 75* 16* 42* 2676* " " 66-17 75* 44* 35* 2518* " " 66-18 76* 31* 23* 2360* " " 66-19 77* 23* 11* 2198* " " 78-21 34* 01* 00* 2190* " " 78-22 37* 33* 30* 2157* " " " 78-23 39* 46* 12* 2056* " " " 78-24 42* 17* 00* 2014* " " " 78-25 44* 16* 01* 1934* "	59-6	47° 44' 55"		• •
59-8 S end 77° 23' 11" 2198' " 59-9	59-7	42° 42' 07"	2204'	•
59-8 S end 77° 23' 11" 2198' "Road Intersection 59-9 44° 55' 01" 2436' Road Intersection 59-10 35° 19' 43" 2231' """ 59-11 46° 03' 20" 2111' """ 59-12 31° 59' 16" 1727' """ 59-13 40° 56' 12" 1946' """ 59-14 39° 53' 58" 2346' """ 66-15 74° 49' 31" 2808' Culvert 66-16 75° 16' 42" 2676' """ 66-18 76° 31' 23" 2360' """ 66-19 77° 23' 11" 2198' """ 66-19 77° 23' 11" 2198' """ 78-21 34° 01' 00" 2197' """ """ 78-22 37° 33' 30" 2157' """ """ 78-23 39° 46' 12" 2056' """ """ 78-24 42° 17' 00" 2014' """ """ 78-25 44° 16' 01" 1934'	59-8 N end	74° 49' 31"	2808'	Culvert '
59-10 35° 19' 43" 2231' " " 59-11 46° 03' 20" 2111' " " 59-12 31° 59' 16" 1727' " " 59-13 40° 56' 12" 1946' " " 59-14 39° 53' 58" 2346' " " 66-15 74° 49' 31" 2808' Culvert 66-16 75° 16' 42" 2676' " 66-17 75° 44' 35" 2518' " 66-18 76° 31' 23" 2360' " 66-19 77° 23' 11" 2198' " 66-20 43° 11' 01" 2521' Road Intersection 78-21 34° 01' 00" 2190' " 78-22 37° 33' 30" 2157' " " 78-23 39° 46' 12" 2056' " " 78-24 42° 17' 00" 2014' " " 78-25 44° 16' 01" 1934' " " 78-26 47° 51' 56" 1881' " " 78-29 55' 42' 25"		77° 23' 11"	2198'	•
59-10 35° 19' 43" 2231' """"""""""""""""""""""""""""""""""""		44° 55' 01"	2436'	Road Intersection
59-12 31° 59° 16" 1727' " " 59-13 40° 56' 12" 1946' " " 59-14 39° 53' 58" 2346' " " 66-15 74° 49' 31" 2808' Culvert 66-16 75° 16' 42" 2676' " 66-17 75° 44' 35" 2518' " 66-18 76° 31' 23" 2360' " 66-19 77° 23' 11" 2198' " 66-20 43° 11' 01" 2521' Road Intersection 78-21 34° 01' 00" 2190' " " 78-22 37° 33' 30" 2157' " " 78-23 39° 46' 12" 2056' " " 78-24 42' 17' 00" 2014' " " 78-25 44° 16' 01" 1934' " " 78-26 47° 51' 56" 1881' " " 78-27 50° 00' 00" 1828' " " 78-30 59° 25' 42' 25" 1713' " " 78-31	_		2231'	*
59-13 40° 56' 12" 1946' " " 59-14 39° 53' 58" 2346' " " " 66-15 74° 49' 31" 2808' Culvert "		46° 03' 20"	2111'	* *
59-14 39° 53' 58" 2346' " " 66-15 74° 49' 31" 2808' Culvert 66-16 75° 16' 42" 2676' " 66-16 75° 16' 42" 2676' " " " 66-17 75° 44' 35" 2518' " " 66-18 76° 31' 23" 2360' " " " 66-19 77° 23' 11" 2198' " " * * 66-20 43° 11' 01" 2521' Road Intersection 78-21 34° 01' 00" 2190' " " " " *		31° 59' 16"	1727'	•
66-15 74 49 31 2808 Culvert 66-16 75 16 42 2676 66-17 75 44 35 2518 66-18 76 31 23 2360 66-19 77 23 11 2198 66-20 43 11 01 2521 Road Intersection 78-21 34 01 00 2190 78-22 37 33 30 2157 78-23 39 46 12 2056 78-24 42 17 00 2014 78-25 44 16 01 1934 78-26 47 51 56 1881 78-27 50 00 00 1828 78-28 52 25 18 1779 78-29 55 42 25 1713 78-30 59 25 42 1504 78-31 66 37 11 1449 78-32 70 54 50 1391 78-33 74 38 18 1416 78-34 83 05 20 1496 78-35 76 29 50 1563 78-36 75 09 51 1738 78-37 80 05 19 1888 78-38 81 56 53 2070 78-39 83 42 47 1781		40° 56' 12"	1946'	
66-16 75 16 42 2676		39° 53' 58"	2346'	•
66-16	66-15	74° 49' 31"	2808'	Culvert
66-18 76° 31' 23" 2360' " 66-19 77° 23' 11" 2198' " 66-20 43° 11' 01" 2521' Road Intersection 78-21 34° 01' 00" 2190' " 78-22 37° 33' 30" 2157' " 78-23 39° 46' 12" 2056' " 78-24 42° 17' 00" 2014' " 78-25 44° 16' 01" 1934' " 78-26 47° 51' 56" 1881' " 78-27 50° 00' 00" 1828' " 78-28 52° 25' 18" 1779' " 78-29 55° 42' 25" 1713' " 78-30 59° 25' 42" 1504' " 78-31 66° 37' 11" 1449' " 78-32 70° 54' 50" 1391' " 78-33 74° 38' 18" 1416' " 78-34 83° 05' 20" 1496' " 78-35 76° 29' 50" 1563' " 78-36 75° 09' 51" 1738' " 78-37 80° 05' 19" 1888' " 78-38 81° 56' 53" 2070' " 78-39 83° 42' 47" 1781' "	66-16	75° 16' 42"		
66-19	66-17	75° 44' 35"	2518'	•
66-19	66-18	76° 31' 23"	2360'	•
78-21	66-19	77° 23' 11"	2198'	•
78-21		43° 11' 01"	2521'	Road Intersection
78-22 37° 33' 30" 2157' """ 78-23 39° 46' 12" 2056' """ 78-24 42° 17' 00" 2014' """ 78-25 44° 16' 01" 1934' """ 78-26 47° 51' 56" 1881' """ 78-27 50° 00' 00" 1828' """ 78-28 52° 25' 18" 1779' """ 78-29 55° 42' 25" 1713' """ 78-30 59° 25' 42" 1504' """ 78-31 66° 37' 11" 1449' """ 78-32 70° 54' 50" 1391' """ 78-33 74° 38' 18" 1416' """ 78-34 83° 05' 20" 1496' """ 78-35 76° 29' 50" 1563' """ 78-36 75° 09' 51" 1738' """ 78-38 81° 56' 53" 2070' """ 78-39 83° 42' 47" 1781' """	78-21	34° 01' 00"	2190'	
78-23	78-22	37° 33' 30"		• •
78-24	78-23	39° 46' 12"		•
78-25	78-24	42° 17' 00"		•
78-26	78-25			• •
78-27 50° 00° 00° 1828° " " " " " " " " " " " " " " " " " " "	78-26	_	– –	•
78-28	78-27			• •
78-29 55° 42' 25" 1713' " " " " " " " " " " " " " " " " " " "	78-28	· · · · · · · · · · · · · · · · · · ·		•
78-30	78-29		_ · · · · · · = .	•
78-31 66° 37' 11" 1449' " " " " " " " " " " " " " " " " " " "	78-30			•
78-32	78-31			•
78-33	78-32			•
78-34 83° 05' 20" 1496' " " " " " " " " " " " " " " " " " " "	78-33			•
78-35	78-34			
78-36				
78-37 80° 05' 19" 1888' " " " " " " " " " " " " " " " " " "				
78-38 81° 56' 53" 2070' " " " " " " " " " " " " " " " " " " "				
78-39 83° 42' 47" 1781' " "				
				-
/0~qu	78-40	81° 50' 47"	1727'	**
	78-41	84° 21' 26"	1678'	

APPENDIX B
Geophysical Field Notes

												Á
87A			H.A.	Š		GEN 524	974-Hole			7-7-12	ď	
X cho to		1/2			F5 +0	AH	\(\rac{Q}{\rightarrow}\)		0	7.11		
A. 11.	for A .	510			-25-	2112/25	15:235		17:18!	: 477		
1-23	*	24. Soiz			From 4.0	_		=				, Y
	H	15.01.3	1									Ä,
, and	De		(2111)	10.07		-	 . 			-		
							 					1.39
P4.62	T				52-2	300.675	16.411	300	1112			
ا مم ا		1650			529	-	-			11.1.		
	120 4	757							 :	-		***
	4	34, 24	.61	34,405	(;2	-		•	-			
	0	866/ 3	(com	.dwo		-	-		•			
		. 56.pw				7-8-92		- -				
			1 A			l1				-		4.
8.0.3	0.0	741	1		7. L. J.C.3	2339.6	33.55	23.3	439	1.9.11		ø.
	',					•						
75 - 67	è		or . S.j 95		For do	35/3:23.	72.5	138	.7%	1 1		
	-							-				
65ti.5	3		47.35'06			2400.575	11.273	260	277.0			
	2									-		
7-12			47°35°6"			2588.554	32.00	358	200			
					-64-6	-	-	-				
1					4		15.024	1				
fecia	٠		42,48.91			7069.17F	18-11	332		1.66		
333			-				- Bin is					
. Ve	\dashv	1	11 33			3370,077	24	2.2	7.567	-		Ĺ
	<u> </u>	4 - -	بهد جهون	Š	,							
			A Company of the Comp	and the second second						THE PARTY OF THE P		
	The second of							200	10.00			

ST A		A A L				
	7	VP	45	:1	H	H Y From (10 FLEX
			7-1	1-92		
Section 57.5	\$11-0192	3.7	2	2.62.7	4.87	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3		350	3 37 7.44W	:	-	12.12
•	50-0 2E.36. 15. 15.			•	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	!					
*5 ** 7 ** 7 ** 5		75.27	4. 5.0.	i.		
	!	·	7-19	76-		
A . O . O .	1261.47	0.73		8425	4.75	1 20" 13" 1 :6-10H hab be trates of Rd & Le colege
02-99	8542 317 27.290		x 577.45	2	1.	1 2 24 42 " Red 14 44
0-5						
154-19	23 94.017 Rt. 60 W	•	27%6. 206	••	:	39.54.30
			į			
64-10	137.761	75.67.5		2		11. 14 11. 11 11 11 11 11 11 11 11 11 11 11 11
25-11	K/30.779	7.66%	2130.812	1.		"Zh .ho .9h"
	:					
27-65	.215	13.25	1046.34	1	8	40.46.22" " 1. 1. 1.
į	1759.773	14. 24. 24. 24.	1739.642	2	2	32.00.55
•	į	!				
i		, ,				
				; 		
		-	_			

9							
S7.A		TAD		26-11-2	7		
	ДΗ	40	30	AP	HI	IN	
	٠	•					1. dls 46 15 1/ ment 66 - 17
į	2146.777	43.624	2/47.217	4.625	5.07	76,31,04,	Me from his an colvert
Y0-9	•						1 6-0A
81-97 m sa	2350.710	52.159	2351.298	••	=	75.37.48."	
40-9 my							116 at (3-0M 15 66
28.17.24 17.122		60.688	2479. 867	11		14.56' 55'	L
10.0 mg.				•			
84.56.36.35.708	36.38.98	78.412	2636.353	11	=	14.10,00,	
from 6-0 A	•						
F3 + 26-15 2811.267		26.686	2812.025	11	=	13.73, 40,0	
Vo-9-4							
			12-7	7			
12 M 74-31	2206.656	12.673	2206.777	4.625	411	33-14.28"	86065 78-21 Though 76-29
	:	_					0-10 mos 1-10 and
74.22 2152.366		16.302	2150.470	7	=	137.31'50"	
	Τ						
Tro 73.23 2070.717		12.46 \$	1070.257	1	11	40 16 09	
78.24	364321	10.36 4	2006.397	h	//	42. 40"45"	
77.25	1992.617	10.358	1992.643	2	,,,	45 39 47"	
76.26	19.6.396	7.00.7	1916.409	=	2	48 46 30"	
77.27	26-1481	5.6.10	1847.086		Ţ	50 18 58"	

				19 19 19 19 19 1	.917										
					1971	_						11 600	1		
4	3/1451	*		36		30,00	5	1.39	".\alpha".	 <u>-</u>	 .47.30"	135" 420	1,21	1,32,	, , , , , , , , , , , , , , , , , , , ,

inde a fill fulligety process and areas in the

					ż									<i>[7</i>]			ราช 🚾	40	140	vi a		7 (1)			žĖ.		
	**																	4			F					1	
																7.3					-						
	2											-													-	_	
										_					-		_	=				-	=		=		
														_				<u> </u>						_	上		
						->6-																		_			
														_					-								
								E										=									
		3				>					-	_			_	_	_	_	_	<u> </u>							
	_	*		8		40	_						F		=		\vdash	_	_						_		
	7	8		23		10																			E		
	_	3		3		K	_	ä			_		_		=		_	_	_								
}—		_											·			•••••			. —						•		
		10		-		1					1						1		,	1					-		
	H	4:9		4.9		=		=				·															
		-	-	1.,	-			-		-		-	-		-		-	-	-			_		\vdash	 		
	PH	4.625		467		=		=																			
त्र				 -	\vdash	30	-	75			-		_	-	-	-	-	-	_					-	-		
14-6	SD	1132.2611		1679.124		18 74. 420		21/6.475																			
イ		_					<u> </u>		 	 	 		-	 						_		 -	_			-	
	0 N	-/8.373		-16.939		-18.07/		18.22 6											}								
74											一			-		\vdash	\vdash		 			-	-	-			
	Δ I	133.1/3		1679.038		1196.335		216.674																			
									بد	_														T	T	 	
	57.A	ch -82		78-41		78-48		2 7 4	Dietohok																		
1	ñ	-	}	2		22		13	K							l			1	1	1]	1		1		

D (Site 5) N July 7 - 1 Area Noc Det 15.54 30 to 60 65N B 717	E-W TO-C	Object Jose Property Control of the	
	70		 _
. 2 2	Ne Z		-:
free So.	Mag		-
13-1 13-1 14-1 15-1 14-1 15-1 15-1 15-1 15-1 15	94	Dan Di-pus	

.

***************************************		7 2 5	100 100 100 100 100 100 100 100 100 100	8	613	5 = 2	
S3862	53-806 53-860 53-860	53 to 63 to	- pa	30 7%	53 63 54 63 54 63	119.69	#18 CC CC CC CC CC CC CC CC CC CC CC CC CC
			-CEZ .871	Weat Sag	3 9		5
	503		-552 .871				
	1 5 0 V	10 CMS 53-	1 1 1				
_ 1	Moved 47 Closed Very Weak	fres					
			-				

A 6 Rot Staff or Server	52-2	34.74.19	5000	-	Stone SC Zone		150	4.	Made SC	-9	10 A A A A A A A A A A A A A A A A A A A			L1"	3	ال ال ال	14 7 7 8 1 C 1 5 5 5 5	15 - 15 - 15 - 15 - 15 - 15 - 15 - 15 -				
	8	×	Dz						3		TIME 2500 MA	 <u> </u>	 									
			10-50 mm								8 8								1			•
:	2	Zmes	Zones	2000									1					•				:
	Ler Ar	Mic	20	36									-	ļ								
7-7-92	Circular	Luteuse	STrac	18500		-						 	 							 		
	4000	**	4					,_									g o'					
	7-5																					

•

.

<u></u>		
	- 55985 - 4785	
200	4.0125	
	3 5 ES	
.	TAPERS -	
53 788 53 788	23.52 27.72	15 to 15 to
N 20 CC 35 748		新ままる な
- - -		·/
	eress - S	
		+- -+
		→ x' - 5'
29		5'
>		
	0	
163		
them all 103		
4×0mc		
RAG	2340 1940 1940 1940 1940 1940 1940 1940 19	
5 Treveh	L	
V 3		
5-		
776	कर ने पर के दर	
1 1		
•••		1 1 1 1 1
5-25		

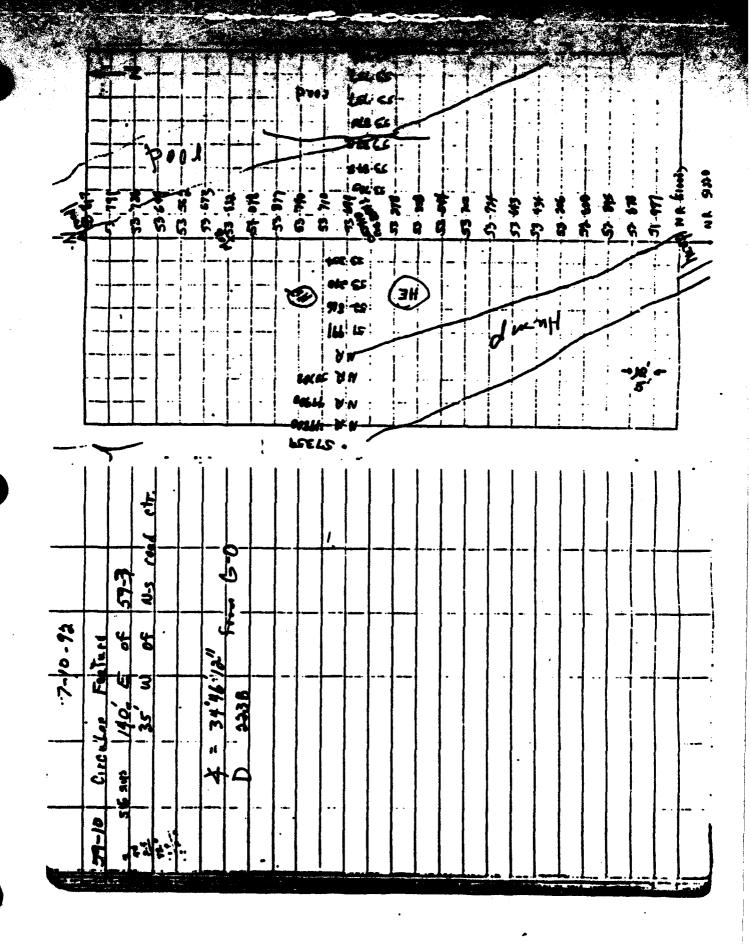
7.66		109 G GS GS CS		
59-4 1-5 Trench Heb - examelly	2 35'8' 80" 6-0 STrent 36 2000			

		<u> </u>	78	1 1 1		
			7581	1 1 1		
	┤╧┾┪╾╟		266	1		
			30 50	<u>- </u>		
\- 	-			s) -	0	
	55 55 55	3 2 3			和 和 和	
-3		8	201			
	 - - - -		zhat	1 1 1	 	
			400			
	 		ses	ps	- Ja	
			gja			
				. 1 1 1		
			N	•		
		enter				
	Aysect.	868				
++	3	Pag .	-			
	+	4				
	20			-		
-92	5	99				
7-9	15 2 %		- -	.	1 1 1 1 1-1 1-	├ -
	77	Gom				
- 3	4	- Les			1	
5. 2.	17-40-4 47-15'3 2"	12				
	-F		- -	.	- - - -	-
3.6	X Q					
5					<u>]</u>]	

•

N		26136-3			CASES OFFICE		2305		**************************************	98
	6 1232 from 6-0	No obvious Mac feather	Hish Backscound in Lecom Area	Sc Zone 90 mm 50 N of Lathe	3c Zone 100 W of Late :					

				ا
		90 ES - 100	6 0	
3 8		142 CS P3 P3 P3 P3 P3 P3 P3 P3 P3 P3 P3 P3 P3		~1~
	South of Whe	Seil frai, Asset		
F-W Trench	from 6-0 15' Worth of centre 15'	A on Shouth Map = 6		l
59-9 E-				-



	Post 915	
- - - - - - - - - - - - - - - - - - -		
3 4 4 3 3	3 /5 500	9 3 3 3 3 4 3
135253	当多篇 第 第 第 第 第 章	4 4 4 5 4 5
	当 多	
1		
	157	
┃-┣╍ ┪╾╽╼╽╼┆╴┞╌╽╴		5'
, 		
	<u> </u>	
٠	W au.	
1 1 1 1 1 1 1		
1 3 6		
4 a B		
4 to 100		
From Ct.	2546	
From Ct.	Zenes	
of the standard of the standar		
1-92 Peach		
7-11-92 The word Ctr. of 59-7 F E-V condition 4	2 (3) Z	
7-11-92 The word Ctr. of 59-7 F E-V condition 4	SC 32 Z	
5 W OF road Ct. ENE of 59-7 46 of 44 from	SC 32 Z	
5 W OF road Ct. ENE of 59-7 46 of 44 from	SC 32 Z	
1-11-92 14 of reed etc 16 of 59-7 16 of 44" from	7 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
E est at The such 60 5 50 of rood Ct. 150 Edf of 59.7 20 U of E-0 cod Cod 4 2 46.04 44 from	SC 32 Z	
E est at The such 60 5 50 of rood Ct. 150 Edf of 59.7 20 U of E-0 cod Cod 4 2 46.04 44 from	SC 32 Z	
5 W OF road Ct. ENE of 59-7 46 of 44 from	SC 32 Z	

													510	(3												
								 				i 	53 681	k St	<u>.</u>		 	!				: :	:			
			-	• .		·						- 7	54	106-			ge	ريوم	e	£.						
		6.0		Ş,										25	2				-	7				,		zi.
	-					2		\$ -		_		3	X,	Yive		~				-		S	E.		7.5	3
			40	9	d eat	 \							54		-					:			•1	Tre	ac)	
· :			·		-		-	 	-			:	341 531	116							•		,	. :	.	
	. 							·	 •	! ! !	-		538 538	•		-					+	×	•		- · -	
	i alman balice					0.7										.								•		
		(m-3	F. W			7				_		-														
26	Trese	186				157																				
7-10-92	A 62		Ą			X = 32.0	*	}						-												• •
	57-12										-										•					•

,			 ,			- - ,				بند	.	مجنع		تبت		J			• • •	٠.	-	•		• .
•						1		-	T	T	79.	155	Ī	- -		· F ** · -	i							
		- -	-		-		-	}	- -		15	بحبرا	. ļ.		ł		•		;		:	:	·	
		-				ļ <u>.</u> .			- -		- 12	233 238	_ ;	.] .							i	:	[
	. !						<u> _ </u>	1		1.					.		_					:		i jaran
				-			t i	i	į		74	18	i			!				. 4		:	Ì	•
				\dashv	• • • •	· -	i-		- T	1-		115		- 1-	•	į.		- :	i	ı	į	*	ı	
•		-		j	-] ·	ŀ		<u>-</u>			D	45		1.	-				İ	İ	. i	1	- 1	
					`.].	25	yw	*		.}	04	126		· [.		1		!	_	- 1	į	į	_ [
							_		Ν				_	1.		i .			İ	•	1		ĺ	•
	•			7	2	4	2 4	. 4	, N	4		3	2						9			4	٠,	
🚡				-9		3				•			13		-\$-	€	1-	3	-5	1	- 3	3474	- 3	
•		·- i			. 1	· 7	,		¥		/•	45	- 1	7-	- G	*	-	7		. 4	1 4		1	
	-				_:		i . I				34	245			.[1	_	į		!	Ί.	' !	ı	•
						-	!!		64	1	1 1	•				1		:	i	•	j			
		-				-1	- !		- i	i		543			7			•		1	• 31	, ::		
i						•		-		į		45	- !		 -	~		:				Ĭ.		
	!		_			j .			- 1	!	/hi	45	!	i				÷	i	i	3	P.	İ	
•					1]	[92		į			1		•	ļ	ļ	3	Æ		
	-									1,				1		-	12			į	,	1	- 1	:
		-		-	•	1	"		6	4./	2/5	1	•	1.	1		5	i	·	!	1	•	. 1	
		-						T.		٠		52 T			- -						<u> </u>			
								1	N		461	25			•				•					_
•	•	. 1									: •"	 		•			· 1 1				 1	٠,		· •
•					- {	ľ	1 1		- 1	1 4	74	5	1	- 1	1				1	1	1	1	1	
		1 1			ı	1	1 1	i		1 4	36	25								- 1			- 1	
:						١.	5			'	121				ı				1		1	ı		:
							۲. ا			1 4	150	5	l			<u> </u>						_		
						1	0			T			$\neg \top$		7	1			\neg			-7		
															1	1	. 1							
			1 1		- 1	- }			1	1			- 1	ı		l			-	- 1	- 1			
-							5																	:
•			9				6			-			_				-	·						<u> </u>
		_	faree							-						-	-							 :
	ત	e t	Sets see	77:		, 5			-							-	-	·						
	- 1 ع	exel	frate nos	11-63		125,										-	•	٠						
	-11-92	Tablet		_무		(6, 25, 7	9									-	-							·
-	7-11-92	Taback		se 59.11		25, 77.	146									-	-							·
-	7-11-92	d Tebuch		<u> </u>		40.461.22 4	1946					-				-	-							•
	7-11-92	1 Tobach		25			, ,										-							•
	7-11-92	as a Trevet		SA BE S		- 11	••										-							-
	7-11-92	C as A Tabuel	Mar bu	SA BE S			••										-							
	7-11-92	E as a Treach		25		- 11	••									-	-	•	-					
	7-11-92	7 50 3	Ab whe by	SA BE S		- 11	••			-						-	•	•		-				
	. 7-1/-92	7 50 3	Ab whe by	SA BE S		- 11	••			-						-	-	•	-					
	. 7-1/-92	59-19 E 25: 11 Tobach	Ab whe by	SA BE S		- 11	••										•	•						

2.2

																95			e di						
					•						1	245 145 145	- -							-	-	-		1-60010	2
-	1.0	X .										nes O							764.7			7986	43182	5383-0	
									 -		1	45	-	-	•		•			•			-		
				-	-	-	•	•	,	!	Esh BE	<u> </u>								1	•	3			
					·				 	· '	7.68 7.68 4.58	9.5- 95 þ.5				<u> </u>							- - 		
							2				243	3						,							 -
		bus	7	7		_	had		 	_		ر ا	_				<u> </u>		_				_		
7-10-92	Trench	2-N 30		of 59-		39.54,30			· —			-													
•	1	_3	300 E	150 W		4 = 3	10	- .						-										· -	· ·
	57-14			42 c				-						٠											

			53700 53700 53700 53700 5387 54
Transfer	91-99	6-03	57891. 55925 F 875 F 921 F 9303 F 915 7
1417 csection of	3 3	¥ 73°43°46" from	

:ť

		<u>-</u>			- -			-				go en	2					***				* • • • • • • • • • • • • • • • • • • •				
•				_	_	-				. •	1.0	418 468	Cr Cr	, ,	• •	-										
		25.00	25			516.66	200		N	Tal .		7		2 6		2.5		- X - X - X - X - X - X - X - X - X - X		-111-6		2 %		2 4	5.44	
-7				n (7	2	- (4	2	N	6.10	7,	lba	عه	力				1 1	i	i	1	i _	T i		7 3	_
•	-									-		Liz	ÉS	-			-		٠ د	Ş			5	3	-	
		-1		1		-	-	-		- 1	-		2.5			<u>ر</u>	a N	7	*	2	ک	-		5"		
	-		7	•			•	٠	-			kų.				い		Ye	Ď,	40	3	TA		:		
		•••	10	رو					.		•	Tes.	છ હ				3		1		S	Ç	2	-	-	
	L	•	L	<u>. </u>	•			البنيا	٠.	•	•••	40P						•				<u> </u>				
•		ľ										175 59	E.	$ \cdot $							·					
	ŀ			·																						
									-	_		_		-4								-				_
														_}	0											
9.3		8 4		i					Treath	pres	-17				Lean									•		
1	-		_	•. 				-	1	2-5	0£ .66				+							-				
1									the	00				10.	635											
· 	-		-		-				whereoth	w,				75	4						-				-	-
,			٠.	s f					Ist	9.5	(53,			×	4	•										
	-18	•		-											•											,,,
	73			التوزي				136												_		_				
1	. Almerica		* ». »		R (*	. **	7 *		:																***	

.

## Translate Tra	-					*****	-			سانت			<u></u>		-	==	• •				•			
13/23 13/21 15/21	1		TT	- 1				1			337	-62		1				i	1	Ī				
13/23 15/21 16/21 17/21 18/21	,	_	. .		-	 - -	_ -				53	187	_	⊢ ′.		l-r	_	İ						
100 100			1.	- 1	1 1		İ	1 1			1			N	3.5	<u> </u>	_	ļ	l _	L				
160' 10 m) & Trinches 160' 10 m) & C 170 m					7					•			Γ.			<u> </u>								
160' 10 m) & Trinches 160' 10 m) & C 170 m		_	┿╌╢		· 						337	27-	. .					-		-				
1 1 1 1 1 1 1 1 1 1			1_1	_ _	_				_					ļ		l	1	١.		-				
1 1 1 1 1 1 1 1 1 1												1 i		i		l	İ	1		l				
## T-11-12 100' # 10 10' # 20 10' #		 	╅╼╾╽		-					-	53	3/	-		 -		·	l	-	-				
## Total Production of Translated Production o		 	╌┪							 	531	42	_			Į					- .		-	
# 7 11-12 12-12-12		1					İ						١.	Pe	•	1		Ì		1				
## Training of the part of the	N	<u> </u>	9 4	-6	*	1	•	h						<u>E</u> -		,	<u> </u>	<u>.</u>					7	2
T-11-12 10 the southern of Treches 160° w at the most of the southern of	7	حب	7_7	<u>~~</u>					, 	-	—	737	į.		-	_	-		5 ;		·	-		
T-11-12 100 10 10 10 10 10 10	C 1	2 2	7	*	\$ 3	5_3	_\$_	S _3	<u>"</u>		. 67			19 . '	· ·	F 1		Š. ?	3.	i	5			
# 7-11-12 160" #10 #2 # 46 = 10 # 16 10 10 10 10 10 10 10]	_ _		ITT	- T "									1		1					•	-
## 17 Wee with the mod 17 160" # W W of Cal-19 160" # W W of Cal-19 160" # W W of Cal-19 160" # W W of Cal-19 160" # W W of Cal-19 160"	•		-		-	┝╾╌╽╼	-			 	53	784	}···	 	j	-		-	···· ·	•	• • •			
# Tribition of Translate 160'			1 -1		_		_ _	<u> </u>			5.37	95	 	<u> </u>		 	_		 —	_	-			
100 100			1 -3	. 4			ı] .		·			}	1							
100 m of to mid the 100 m of the		<u> </u>	4-3	-4.	-	-		1			55	77				1		-		-		[
# 7-11-7. # 160' # 10 20 of 12-18 # 7156'25 From 6-04 D 2477		 -	—ફ	_{-	-∤	 -			_	-	53	164	 	├	 -	 	 	-	5	1	-			
# 7-11-7. # 160' # 10 20 of 12-18 # 7156'25 From 6-04 D 2477				. \$		11_]	<u> </u>	L	-	43		l	L		١.	١.	l	١				
# 7-11-7. # 160' # 10 20 of 12-18 # 7156'25 From 6-04 D 2477	•			'V'			7				[-	1		İ		1					
46-17 190 of Trackes 160' 010 of 62 500 6-04 X 7135555 From 6-04		 -	- 3	-7]		 -	-+	 	 	 -	53	7/3		┼──		••	٠.	1	- -	! -				
160" W of Trackes 160" W of Gard eTe 160" W w of Gall X 745655 From G-0A			13	Ž				<u>L</u>	<u> </u>	<u> </u>	رموا	-		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>						
160" W of Trackes 160" W of Gard eTe 160" W w of Gall X 745655 From G-0A										~														
# 743655 Eron 6-04	٤					;		•		-			• • •	••				•						
# 725655 Eron 6-04		1 1	1 1	1	1	1 1	1	1	1	ł	ı	1	ł	1	1	ł	ł	i	1	}	ì	1	}	
# 725655 Front 6-04	:		1 1			1	1	1	l		1		1	1	1	1	l	1	1	İ	İ	1	ļ	
# 725655 From 6-04	Ì	j j		1	1	1 1						5								1		1	l	
# 725655 From 6-04	!	1 1	1	- }		1 1					1		1	1	1	1								
# 70° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1	_														'									
# 70° w of the rand 160° w of Tre 20° w of the rand 2479	:				:																			·
# 70° w of the rand 160° w of Tre 20° w of the rand 2479	:				:		K K							_			<u>-</u>	_						
# 70° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1	:	9			:		OA							-										-
66-17 101ec saction of 160° at 10 at 10° 247° E. X 785655 E. D 2479	:	hec			:		-0A																	
66-17 101ec saction of 160° at 10 at 10° 247° E. X 785655 E. D 2479	:	chec	-10				6-0A			•														:
66-17 19ac section 4 to 1 to 2 to 2 to 2 to 2 to 2 to 2 to 2	:	reaches	1.1																					
66-17 19ac section 4 to 1 to 2 to 2 to 2 to 2 to 2 to 2 to 2		Treaches	19							·														
66-17 19ac section 4 to 1 to 2 to 2 to 2 to 2 to 2 to 2 to 2	1-12	1 1	19																					
160° 17 × 70° 18 × 70	-11-92	1 1	0£ 66				Front																	
160° 17 × 70° 18 × 70	7-11-92	4	J 96 66				Front																	
64-17 inter (60 / 10 / 10 / 10 / 10 / 10 / 10 / 10 /	7-11-92	9	J 96 66				Front			·														
64-17 inter (60 / 10 / 10 / 10 / 10 / 10 / 10 / 10 /	7-11-92	9	J 96 66				Front																•	·
	7-11-92	9	NN 2) OF 66				Front																	
	7-11-12	9	1 NU 0 6 66				785655 Epon							-										
	7-11-92	9	1 NU 0 6 66				783695 From																•	
	7-11-92	9	1 NU 0 6 66				783695 From							-								•		•
	7-11-92	9	1 NU 0 6 66				X 785655 From							•										
	7-11-92	Wer seation of	1 NU 0 6 66				X 785655 From							-										
	7-11-92	Wer seation of	1 NU 0 6 66				X 785655 From							•										
	7-11-92	Wer seation of	1 NU 0 6 66				X 785655 From																	
	7-11-12	Wer seation of	160" NN W of LL				X 785655 From																	

											(m) (3) (3) (3) (3)		***							
-w.	-	2 -			5 5		90	3	3		5	867 863 137 715 800		***************************************	*	¥.5			100 C	でなるとなる
<u> </u>				-	•	-9				. :		(50) •101 •101				•	-	-		
7-11-92		_	_		Weak I zme	 15.39,46"								•						
	66-18 INTERSECTION		M# (7 ,09/		S	er & 15													-	

to a company of the c	To the second se			• •
		975		
				5
		873 N35°W		Sec. 2
		359		.Z
		9/2		4
		752 12-		- 1
		99		- 1
			- 2-3-2-3-3	- 5-2-
1-1-1-1-1				7 7
		. 799		
<u> </u>		882		-
		87/		
18 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		827	-274-	
3 %		827	5	•
i .		777		
2 20				
8 2 2	4			
Par 12	¥0-5			
	╼├━ <u></u> ┰╸╎┄╎╌╎╼┼╸	·┃··┃ · ┃··┃	│	┤ - ┼ - ├── │
٤ ١ ١ ١				
7-11-92 tren of Southern				
· 4 1 3	3197			
- Lee				.
later see 8 and feather				
1 E 80 E	**	1 1 1 1 1 1		
91-3				
9				
The second of th				

. 4

*

1-10-92 1-10	23 24 C 25 C 25 C 27 C 27 C 27 C 27 C 27 C 27	2			Service of the servic	-	25 52.55	700 V 1500 V	5470 - K-	
7-10-92 Blow Hole-Gualde. 5 SE OF Junger 5 19°44 42" from = 3544 42" from = 3544	Th Sn	en George	moles .	5	AE SSS 4 23 1195 92656 166 AT			32		·
! }•	7-10-92 Blow Hole-Chenla	115 of road 535 of 57.5	1 25' .w. = 12' .w. = 12'	इ अऽपक्ष						•

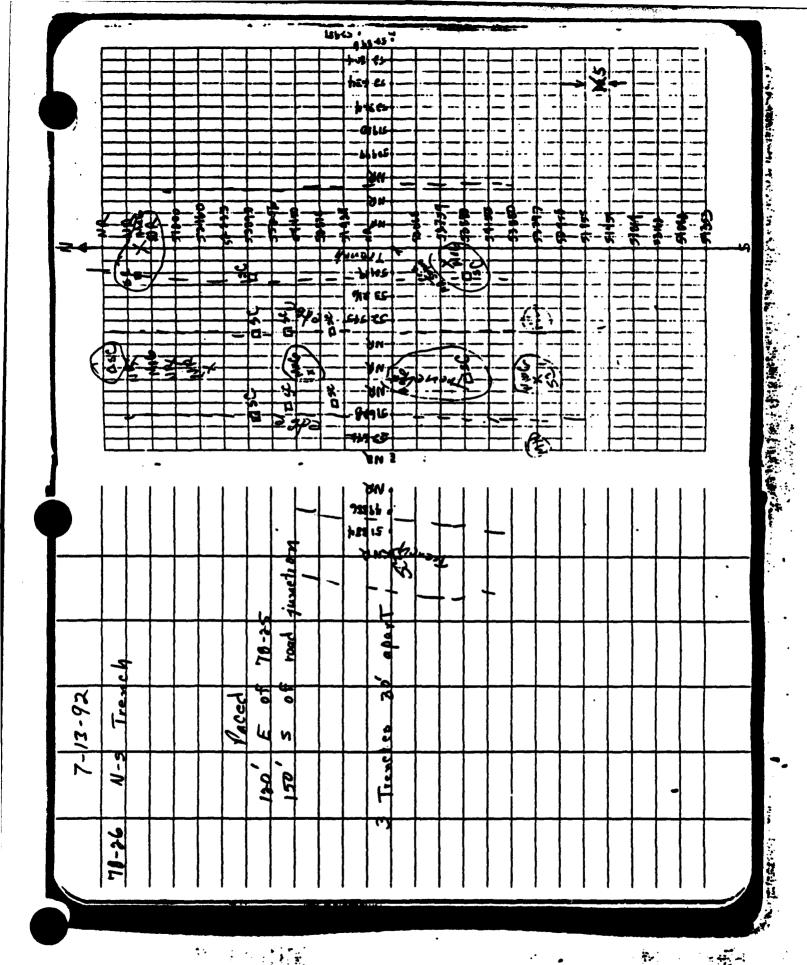
18-zi	Gene 60'el	1-12-19-19-19-19-19-19-19-19-19-19-19-19-19-	45		7 (8	(p + eq)	18
$\dagger \dagger$	5	3	91-15				
78-22	1 1	FNE	1	Free	78-21		78-
	,59	R	y	l	raed .		
78-33 . 43-47		6		10		•	102
74 0	3		L	10-22	F6 7		
78-24	105,	14	4	78-23			
•	65,		40-	7-13	6		
			-				
76-25	,501	4	OF	78-24	*		
	115,	SSE of	4 4	53-71 13-72	Yes		
			1	1 1	1 1		i i
78-26	120'	E e	of.	78-25			; i
1 1	,			Pag	Junetion	Lang	
			-				
			-				
-						• (-

					-	
28-26 2000	78-27 road	78-28			-	
7, 4,	94 1	0 0				
85' E	95' E	95'6		- \\		
	8	6-	-			
18-81	78-28	78-29				

7-12-12 18-3.1	7-12-12 78-21 4.5 7-2-12 78-21 4.5 7-2-12 26 26 5 5 7-12 26 26 5 5 7-12 26 26 5 5 7-12 27 27 27 27 27 27 27									
78-3.1 18-3. 76-20.0 18-20.0	78-21 N-5 78-30		1-12-1	77			334E8	16.6		
10	11	~	1							
fa ed fa e	fe ed fe ed fe fe fe fe fe	-	•							
(10' 10) of 10's rad (10' 10) of 10's rad (10' 10) of 10's rad (10' 10) of 10's rad (10' 10) of 10's rad (10' 10) of 10's rad (10' 10) of 10's rad (10' 10) of 10's rad (10' 10' 10' 10' 10' 10' 10' 10' 10' 10'	16 20 25 25 20 20 20 20 20									
46' W of Res and 66' S of St. 10 11 hy fammy com 55' to 19' W. 11, a. m. 4 hy fammy com 55' to 19' W. 11, a. m. 4 hy fammy com 55' to 19' W. 11, a. m. 4 hy fammy com 55' to 19' W. 11, a. m. 4 hy fammy com 55' to 19' W. 11, a. m. 5 hy fammy com 55' to 19' W. 11, a. m. 5 hy fammy com 55' to 19' W. 11, a. m. 6 hy fammy com 55' to 19' W. 11, a. m. 6 hy fammy com 55' to 19' W. 11, a. m. 6 hy fammy com 55' to 19' W. 11, a. m. 6 hy fammy com 55' to 19' W. 11, a. m. 6 hy fammy com 55' to 19' W. 11, a. m. 6 hy fammy com 55' to 19' W. 11, a. m. 6 hy fammy com 55' to 19' W. 11, a. m. 7 hy fammy c	466' 20 85 8-5 rad 66' 20 85 8-5 rad 66' 20 85 8-10 65' 5 85 89-10 41R hyperam q ions 55' 10 95 16' 11, q' ray 41m mag 42 at 5-12 federac 61m mag 42 at 5-12 federac 61m mag 42 at 5-12 federac 61m mag 42 at 5-12 federac 61m mag 42 at 5-12 federac 61m mag 42 at 5-12 federac 61m mag 62 at 5-12 federac								-	
(40° a) of #5 read (40° a) of #5 read (40° a) of #5 read (40° a) of #6	466' 20 66 R-5 read 466' 20 66 R-5 read 466' 30 66 R-5 read 416 Regionary : One 55' 10 75' 10'-11, dread 410 Canani desirate Third afree 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10 75' 10'-11, dread 410 Regionary : One 55' 10'-11, dread 410 Regionary :				•				-	
4 10	410		fared		·					
Slamp 5.6 formula 200 formula	41	,09	40							
Slow (channel chained of Rivil, Very Side of S	Slang (Leban) Constant of The	, 59	40							-
Strong Learning Did Learning Di	Slang (charm) com 55 to 95 (Mr)1, Cry 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	}					-			
410 Land Selege Mell, Congression of Selege Mell, Congress	Strong Learner 27'10 95' Marill, Crop 12' 2' 2' 2' 2' 2' 2' 2' 2' 2' 2' 2' 2' 2	7.5.7	4540	·			-		-	
Strong Learning 20 (free 1) Common Control (free 1) Common Control (free 1) Common Control (free 1) Control	410 Court of the St 10 S				·			1 1 40 1		111
		7,007		95	-	-53 	-59	(30	-	-
			200.00		-	رد برد	06 9	3	£ 5	-
					•			5		
2.70' Led for 1 February 1 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11 1 1 1 1 1 1 1 1 1									
2.30, 1/al fa, : 18:31		9	-Z -0	. Sec.			-	(100)	11111	
			3	15.31		-	-			
		-	1		٠					->
										10
4.85									-:	·
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3										
3 3 3									-	
3:5:3										
41.33									-	
							33	. 42	,	

70-23 70-24 70-25 10-25 Virgidizate of 12-22 Virgidizate of 1							1				ŀ	ŀ	ŀ	ŀ	I	1	
78-23 Virg direct food me, commity them; 1. c. a. "The food me, commity them; 2. c. a. "The food me, commity them; 3. c. a. "The food me, commity them; 4. c. a. "The food me, commity them; 5. c. a. "The food me, commity them; 6. c. a. "The food me, commity them; 6. c. a. "The food me, commity them; 6. c. a. "The food me, commity them; 7. c. a. "The food me, commity them; 8. c. a. "The food me, commity them; 8. c. a. "The food me, commity the food me, commity the food me, committee the foo			· · · · · · · · · · · · · · · · · · ·	7-12-	2							1	(\$	~			
Very Greek Standard Lead 19 19 19 19 19 19 19 19 19 19 19 19 19		78-23						匚			MA	<u> </u>			-		
Very Elvard Scandance scenario, feed									-		44		之 法			Ž	
Very cloud, SC and man and wall the state of								••			3	**		_	-		
Very clearly feed are smally feed for the feed feed feed feed feed feed feed fe								· .			-)	ء ارا				
Very glown St. and man account, the season of the season o											-	-		=		_	
2. c	~~			Paced	,			لــــــــــــــــــــــــــــــــــــ		-		-		-	, ,		
The state of the s			,	1			-	L									
				Ì				L		_					-		
		7.22,7	_	77		١,	1 . w	ا ـــــــ	•	-				- =	* * * .		
### ##################################			_				4	<u>. </u>	1	- 				-	3		
### ### #### #########################			*					<u></u> -ل		-		-				-	
							1		-			9	1	Fa	4	?	
							•	-y	14	225 L		774	•		300	3.4.2 5.4.5	F.
							ı		* .			·		-	-	3 ° .	-
	> "1youge							<u> </u>		12.		- 		_			
						•		l	1	14.					91	,	7
								_		/2		-	Θ	-	:	-	•
	***							L	- 3	7/5/	-	••• •••			-		
								 •		2				_	-	•	
	_							L 	-	- -		-			. 7		*
								l !					A.		Ş	C	
						·		l	 	- 		\$ 4 		į	و مو		
								<u>. </u>				146	~ 1	 W.,		1	
	_					٠						-		77			
	-								-	·			_	•			
								i						•		-	
					THE BUT SHOPE	100.00 state						4		19. E. C.	40		

78-25 N-4 Traveh 102 E of 78-34 140 SSE of E-W road 78-35 Of E-W road 78-36 Of E-W r		
103' E of 78-34 140' SSE of E-W road 115' SSE of E-W road Tranch every so' 40cT	======================================	
102 E of 78-34 140 SSE of E-W road 115' SSE of E-W road Transh ew y So' yer!		
F. of 78-34 55E of E-W road 55E of E-W road		
Raced 78-34 55E of E-w read 55E of E-w read		
SSE of 59-1/ SSE of E-W road every 50' 40cT	Eties	
55E of E-w road 55E of E-w road every so 4ect		
55E of E-W read 65E of E-W read 640-7	E 7275	
SSE OF E-W road	- E TLES	
Took as a second	Etičs	
Fuery Sp. Jeef		3 4 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Took Sp. AscT		PARTI PARTI PARTIS
0]_	816 1115 1126
		The second secon
	3	
	-	
いれるというではないとうない こうかいしょう こうないかんかい しょうしょく かいまる おおおおおおおお		VIE TAN



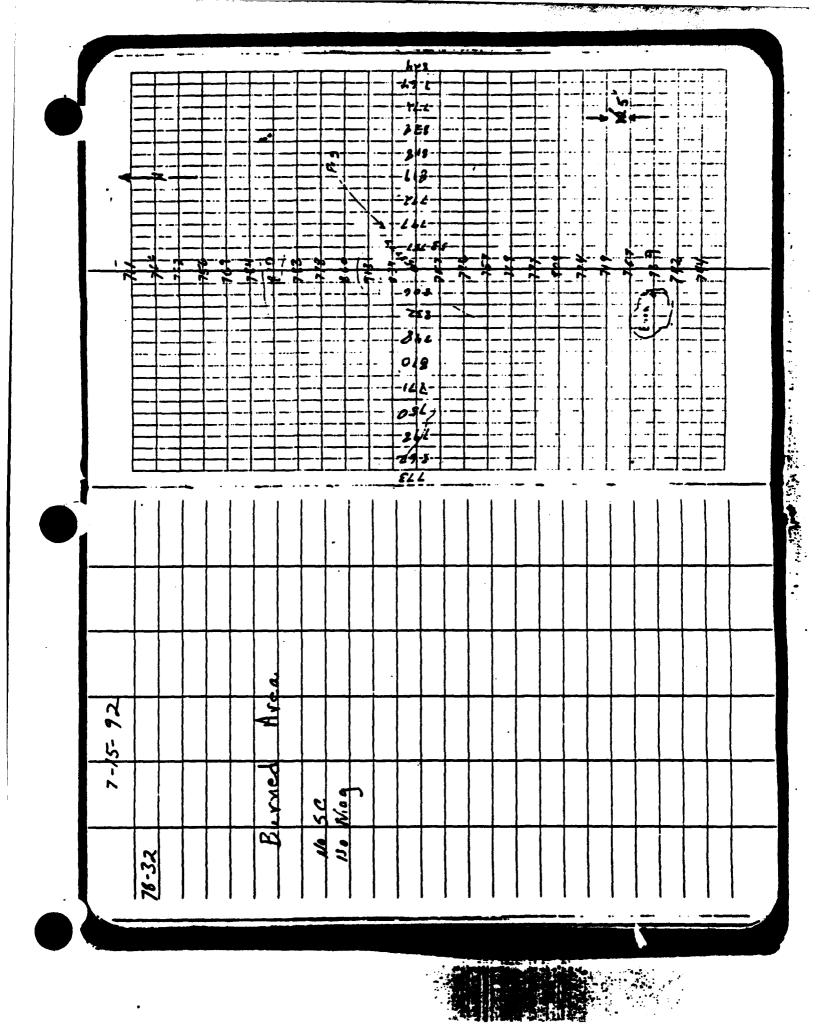
						1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7						-
78-27 Short NIS TEACH		0 - 1	9.F		assisted of treath or has ond	ľ			•					

				٠	
		-	-	-	· · ·
S	21 155	·			
		٧			
	N. W.				
			-		
	3	•			
				Trench	
9-8 9-8 - 8-8 9-9-31	114 124 139 139 139	Z	th	Maco	
	91 93 93 93	3 meiden T	- 0f	Good Allehmen	
					·
	Marie				
	799		-		
			F		
	(****)	8	E of 70-28	95' E	
		•	Pop	J.	
•					
		as h	M-S Tres	-9 Sheet	76-29
	100 S		3-92	7-13	

71-30 Ala Strate flore Ala S	-	 .					•	•••	18.7				ارر														1
2-15-72 Served three St. Zeac Stroke St. Zeac Served three St. Ze	(410	0							[· ;		, , ,			
Struck then So Zene Struck then So Zene Struck the So Sene Stru		_						_									-				1	•	•		-		
Struck then So Zene Struck then So Zene Struck the So Sene Stru								-			.		Em !				-			•••	: !	3				1	
2-15-72 Struct thea S. Zere Strop S. 2009 Strop S. 2009 Struct the S. 2009 Struct	}				• -							"		•	•			-			-	X	-		. 1		
2-15-72 Затыра 5.7 Zane Вы затыра 5.2 Zane	7	-1				-				-								1									
Enrich drae Strong S. Zene B. S. David School S. S. S. S. S. S. S. S. S. S. S. S. S. S	<i>'</i>												•						-								
Enricd theat Strate Str	j				-			-				ı															
Enricd theat Strate Str			ب			.	 		\\	-	· ·		-						· -		1						
Eurned three Strong Serves Ser	}	-			-	├ ─-	-					i	•	. 2	J-		-									-	
Euracd Brea. Strong S. Zeare Strong S. Doog S. S. S. S. S. S. S. S. S. S. S. S. S.					;;	٠ -			├	-	- 3	· -	784-	= :	3-						—			-			
Extract three Strate St													+	2			-				- 1						
Багие daee Sr. Zeae Bar. S. Dae 300. 30. 31. 32. 32. 32. 32. 32. 32. 32. 32. 32. 32		<u></u>		~		h .							12-	る													
Func date Stroke SA 200 Stroke SA 200 Sa 20	140	P			<u> </u>	6 .	<u>. </u>	Į	8.7			3 6	9	Ą		Ş.,	;				3	` .	5 3	Fÿ			2
Fund dree Strong S. Zene Strong S. Zene Strong S. Zene S. Zene	/	- 2	0	D		5	5	ēi	4.	6	- 1			1	Ž į	<u> </u>	[<u> </u>		٦.·١	- 1	- 4	,	- 1	- 7		- 5	
Eurica Area Save Early	3-4	-		<u> </u>	<u></u>	<u> </u>	<u> </u>			<u>`</u>	<u> </u>	-	<u>; </u>		-		-	}		-61							41
Func drea Store Save Save Save Save Save Save Save Sav		-		} -			F	- 3	[4. —	- - -					-	P . —		3		-	1		•-•	1 1	
Park Are Song				-				.1	-	_	١.	,-	172	7	-			1									
Particle free Strong School Sc	i		-	 -	t				†				100	<u> </u>								_				[]	
Strate St. Zeare Strate St. Zeare St. St. Dover Bet. 18 Talk Math 300.9					<u> </u>		Γ							l				Ī			_				_]	
Strucd drea. Struck Shows Beb. 13 Sale Shows Beb. 13 Sale Shows	İ					Ţ		1_		_			-		ļ		 	ļ—		-							
Marned Area Strong S. Zane Strong S. Zane Salva S. Day Barnas Salva S. Day Barnas Salva S. Day Barnas Salva S. Day Barnas Salva Salv	i		 		 	 -	ļ]		 	\ —	-	 		 -	·-		-				 -	 		<u> </u>	
Marked three Strate Str			}		 	<u></u>	· 	 	 		-	-	263	ļ	1-			 		•	-	-				1	t
Earned Area Strong S. Dave Berns Sak Neb 3009 Sak Neb 3009			∤ -	∤ -	├	 -	}- ·	∤ -			 	 -	1	 	† —		 -							ł	1		1
Struck Area Struck Stru		 -	├ <i>─</i> ─	├ ──	 	 -	 	}				1-		 	-			 -			-			1	1 <u></u>		•
Pak Store Bery Store Berry Store Bery Store Bery Store Bery Store Bery Store Bery Store				1-	 	†	†								1_			1			1	_])
String St. Zene String St. Zene St. St. Dav. Ber. S. S. Dav. B					1	1	T	<u> </u>				1						1				-		j	l- —		
String St. Zene String St. Zene St. St. Dav. Ber. S. S. Dav. B					T	Γ.		1	1		ļ	J	Eis		ļ	.								-			l
Park Area Strate						L		ļ	.		J	↓	.L		·		 —	4	1	1		-		١ .			
Park Area Strate		<u> </u>	ļ	ـــ	↓	┼—	┿	↓	·}			 	534	} =	 	 - -		∳· —									
STEWED ST. Zene Bak St over Bernes Cak Nath 3009		<u> </u>	<u> </u>		ــــــــــــــــــــــــــــــــــــــ	1	ــــــــــــــــــــــــــــــــــــــ	<u> </u>		Ь	ــــــــــــــــــــــــــــــــــــــ	ــــــــــــــــــــــــــــــــــــــ			Ь	<u></u>	<u> </u>	Ь		ـــــ	ــ ــا			·		ــــ ،	l
Earned Area Strong Stro													5.!!														
Eurach Area Strate Sr Duch										V																•	
Strong St	-17						-			_ 4	36	2															
Struck Struck	15-							<u>L</u>	9	_	0 0	1	_														
N-30	7-		·				Burne			=4	707	***															
		78-30							Alo	43																	

	The second secon	Arrive Company of the	ं श्र				
-	-						
						-	j 1
		- - 					
	-						
	-						
	<i>j</i>						
がしたしょうない	6 4 4 2	1.					
	72 43 77 78	30					
			250		1340	4	
			2.5	4.6	=		
				7	•	7 4	
				200		4	
					T I	8	
							78-31
		***********	A 33		15-92	7-1	

- A



. 4) (C.) The Print of the Paris of the P 5 44 757 over Even Lica bie b 78-33

		 ·	7			 Т	 اا	·!···		1	41	9,	<u> </u>			==		7	i		: -	•		•		4
<u> </u>		 	11			1	1		-	_		292	1	1			-				1!	!	1 .	. !	i •	1
1		1_	1 1	r	1-	1:1	1_	+			1	101		1-	-		1 !	1 1	-	5		į į	1	! • ;	, 1	
}	_	-1-	1 1	1		1	i - '			l		ישור				1!	1 1	1 1		A ,	-]	į ;	: 1	ı j	į	
1		<u> </u>	1. 1	17			1_			-	1 -	216	-			<u> </u>	1 1	<u> </u>		į j	ı j	1 1	1.1	! !	i	ļ
l		7	4 4				1-	1 1	9	i	-	j. "		1		[1			: 1	1	1 1	!	i j	í	1
1			1 1	1 1	-				72.9	-	. 1	12	1	1		1.	1	! !	1	1	1 1	1 1	1	.	i	ł
-	1-	- -	1 1	1		1 - 1	i _ '	ŀ	1.3	V	-5	519		1	1	1	1	1 1	1 1	1	1-1	, ;	1	, }	i	1
. 7	- 1-		1 1	1	1: -1	 	1:1		-	1	4-1	40		,	1-1	1. 1	!	1. 1	1	1	1.1	1	1	,	\$	7
·			<u> </u>	Ľ J			1		1	-	<u>_</u>	47383	1_	4		<u>t</u> !	1 1	1	1 9	1 1		I	1	1	í	1
4	:	2	1	<u></u>			ار -	<u>'</u>	از لم	Ţ.;			1-	J ,	الح- إ				> =		- 4	و ج	-	ال ه		1
•	·- 40-		F 1	- 4	-			7	7	7.	3		1		-	-	- 1	4	7			• स	-		-	-
t		1	1	1			1-1	- "	- '			LE3 -	<u> </u>			1	1 1	1 1	1 1	, }	1 - 1	. +	r J		•	1
}	——	二	4	1.1	, —·		<u> </u>	- '	·'		-/-28		-	ļ	1	-	-	[.]	1	, J	,=]	- I	, -]			1
1	==	1=				1-7	: :	-				8				-	[]	1 1	1 1	, 1				\dashv		1
1	·	- - ·		i • }		-	 -			1	1 -	1,				1		1. 1	1	, }			-			,
ŀ		1_	11]	- 1	1.1		Ĭ 1	1 -	_	- 81							1 1	1	, 1			-		i	1
t	- -		-	-	-	1_j	1-1	1-1		-	8	43	<u> </u>	 -!		<u> </u>	1	$(\cdot \cdot)$	1	ı ·]	J	·	1		, ,	,
1		1-				1	ı)	-	-		Si	3		-		[.]	[]	1	1	1			[]		i)
ļ		<u>- </u>		. 1	1.1	171	1 7	<u> </u>				<u>.</u> تو	 /			1	1	1	1	. 1		-	•	-		
}	· . -	-	1-4	<i>i</i> • •	r - f	1.1	1 1	 	1.		136		 '	1 1		1	1	1 -1	1	,		.				
i			لــــــــــــــــــــــــــــــــــــــ	لــا		السا	!	上.	1'		1-0%	48	上了	n.		1 1	1 1	1 1	, 1	1		1]		
	• 	-			•			-	•		77	68	******							•	-		•	-		_
1	> 1	ı	1 1	. ,	. ,	L 1	4	í	1	1		í	ı	ł			ŧ į	. j	i j	<i>i</i> }	, 1	, ,	, ,	, ,	ı	1
1			1 1	.	, }	1	i 1	1	'		1	,	1	1	1	1 1	1	1	1	, 1	, 1	, }	1		i	•
		'	1	,	, 1	1	i 1	1	1			'	1	1		1 1	1	1	1		.		1		i	
			1]]	,]	1]	1 _1	1_'	1_'		_ '	_ '	_'	1	1	[]										
	1	1																								
1		'	1	, 1	i 1	1 1	1-1	1 '	'			'	'	j '				1	1	,	,]	,	.	.	. •	1
		1	1 1	.	1	1 1	1	ا	'			'	'	'	1	1 1	1	1	1	, 1	, 1	,	, ,	,]	ı	1
	+	+	+-+	_		 	Ĝ	<i></i>	+-	+-	+	+-	+-		-	1	 		\longrightarrow					_		-
1		1	1	.	1	1	し	<i>ل</i> '	•				'	'		1	1 1	1	1 1	1 1	1 1	1	1	1	ı	,
İ	- [1 1	, 1	1	1 1	1	1 '			}	1	'	,	'	1 1	1 1	1	1 1	1	1 1	1 1	1.1	1	ĺ	!
		حل			لـــا	لــا	5	⊥_′	'			<u> </u>		<u> </u>												
7		7	1		1	1	106	<u> </u>	1				'	(1	1	1	1	1 1	1	1 1	1		1	i	ļ
•		1	1 1	1.	1	1 1	}]	1 !					•		1	1	1	1 1	1	1	1	1 1	1	1	i	İ
3		67	4	$i \mid I$	1 1	1 1	7	۱ ا					,		1	1	1 1	()	1 1	1	1 1	1	()	1 1	i	ļ
	1	10		1			_		1	†	+	+	 													_
			1	1	1 1	1 1	1	C.	}	}	-		1		'	1		1 1	1	1	1 1	1 1	1 1	1 1	1	
ĺ		13	1	1	1	1 1	*	1				1				1	1	1	1	1 1	1 1	1 1	1: 1	1 1	l	
		13	4		ل	12	لإسا	4	1	1	1	1	<u> </u>	_	<u> </u>	—┤	—			1	4		1			_
1		7	Å	1	1	2	week	4							'	'	1	1 1	1	1 1	1 1	1	1	1 1	1	
1	78-34	1	1	1	1 1	7	3	4							'	1	1		1	1	1	1	1	1 1	l	
1	4		1 1	1 1	1	1	1 '								'	1	1 '	1	1	1	1 '	1 1	1	1	ĺ	
•	RI	ı	1 ,	4)	4 >	1 .	4	1	1	ī	1	1	1	1		1 .	1 .	1 -	(-	1 -	1 -	•	1 -	(-	1	
, ,	• • • •	•	• •	•	•	1	1	•	ı	•	•	ı	1	•		•	•	•	•	•	•	•	•	•	•	4

																			•				
	-	Z						94	~	- 1	d H							-					
73		3	-						**	4	Dork	**			*	12	-166	118		114		s	
									7	L	9												
	-	-				. •		-			12 -											•	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
			-	<u>.</u>					-		12	3											A Maria Maria Company of the control
										f	es .	1						1	1				
					_					+		-	-					-		-			
												-	-										•
K6 31				-						+	•	+	-										
7-2					1:1		4.6						 					-					
	78-35				300	,										-							-
iee	<u> </u>		<u>-</u>	ا 	1	(ا ا	!	1	(1	{	(•	(1			 			(_;	

7-16-92 18-26 E-4 Outline feature 18-26 E-4 Outline feature 18-26 E-4 Outline feature 18-26 E-4 Outline feature 18-26 E-4 Outline feature 18-26 E-4 E-4 Outline feature 18-26 E-4 E-4 E-4 E-4 E-4 E-4 E-4 E-4 E-4 E-4				,	j. 	;						77	7	<u> </u>				·	- 			. ·	(- <i>-</i>		:	<u>.</u>	T.
78-36 E-30 Garbus Hean Sail Ala SC Ala Sail Ala SC Ala Sail Ala Sc Ala Sail Ala Sc Ala Sail Ala Sc Ala Sail Ala Sc Ala Sail Ala Sc Ala Sail Ala Sc Ala Sail Ala Sc Ala Sail Ala Sc Ala Sail Ala Sc Ala Sail Ala Sc Ala Sail Ala Sc Ala Sail Ala Sc Ala Sail Ala Sc Ala Sail Ala Sc Ala Sail Ala Sc Ala Sail Ala Sc Ala Sail Ala Sc Ala		 -	_ -	 			_	-	_				7-	• •						• • •		-	··.		:	•	
76-36 E-3 Out Gathae 18-36 E-3 Out Gathae 18-36 E-3 Out Gathae 18-36 E-3 Out Gathae	_			1_								74	4 -								_		-	. 6			
78-36 E-30 Garbus Houn Sail Ala S.C. LO Mag		 -		-	-	- 1	-				ł		_			-			-	•			-	Z	-	i i	
7. 16-92 E-w Oval Gerbuce 10-36 10-		 -		+	-							71	7 -			· - ·	$\overline{}$		• •			ļ		•	•	!	1
7. 16-92 E-w Oval Gerbuce 10-36 10-				1_																_]		Ι.	ļ	! -	1	
7.6-92. F-w Oval Gabas. 18-36. F-w Oval Gabas. 10 Mag St. 20 Ma	-				[]							77	7.			-			-			ì		ļ.		İ	
7-6-92 E-v Out farbue Lou Spar Lou Massar We Mass We mass We		 	4-	- } -] -		-			- 1	١.	71	4					-				-	ŀ	į .	i	ł	- 1
7-16-92. 76-36. 76-36. 18-3	,	} ·]	-	-		-	-	•	١	1	• !	-	•	Ž				j.	j	Ì	}			
The Spate feature of the Spate				1_				-			1	71	4				7					١.	١.	1	1	1	
7-6-92 76-36 18-36 1												7	.					5	-	-	•			<u>.</u>	1	ì	
72-6-92 78-36 Fee Dual fashue Ma So		┝╾┟╸	∤	┥	l	-	-			٠.	- •	<u>.</u> .	1.		}					• •	1	-	l	ł		ł	
76-36 F-w Outl Gerbuc How Soat Mag		 -								-	†	1.7	14								١.			ľ		1	
7-6-92 76-36	•				1	•					- 7					-		<u> </u>		7	4		∠ :	-		_	
7-6-92 76-36		,		7		}					•				- 1	· }			2			-	- 5	-	Ţ.	Ť	_`
7-6-92 Th-26 E-w Out teature Lea Spat	- I								_	- -	۱ ۱	Ž 14	1	-		-	∤	- :	. "		<u> </u>]		Γ.	7 ,	7 4	
78-34. E-w Out 1 feature No Set 100 May 200 M	W] -						-			} - ·	 	<u> </u> '	!	 				-	- ·	1	}	} -	-	- -	1	1
78-34. E-w Out 1 feature No Set 100 May 200 M				┿╾	 			 - -		-	1-	├ ऽ	2	Λ:	 -	2	-		-				-		· · -	Í	
76-36 F-4 Outs feature 10		 -		+-	-	-					~ ~										i	1		1] ''	1	
7-16-92 78-36 E-3 Oval feature Alo Sol Mag Alo Sol Mag									1	Γ		7-84	7	1 3	F		T -	T			_].	-]	}	
7-16-92 78-36 E-3 Oval feature Alo Sol Mag Alo Sol Mag			二二	1_	1 _					ļ		-16	• -	ļ -	 	٠		1	'	•		-	l		-	ł	
7-16-92 78-36 E-3 Oval feature Alo Sol Mag Alo Sol Mag		 -		∤	·}							-:-	<u></u>		 		-	٠-			1	1		1	ì	1	1
7-16-92 78-36 E-3 Oval feature Alo Sol Mag Alo Sol Mag		 -		+								-80		ļ	 - -		 -	}-			i		1	} '	1	}	1
7-16-92 78-36 E-s Ovel feature Alo Sol Mag Alo Sol Mag		-										174	<u></u>	1		1		i			I _]	1	1. `	1.]	1
7-16-92 78-36 E-4 Oual feature 10 Mag 10 Mag				I				Γ		Ī		1	<u> </u>		P							-	ļ. .	ļ		4	ł
76-36 76-36 Few Spat feature No SC No Ma 9 No Ma 9		 	_ _		-			- 		}-		130	>	 	├-		 			- -		··	 	ļ		1	
76-36 76-36 Few Spat feature No SC No May No May				-	1-		-			}	-	-	1-	 	 -		 -				· ·		-	١ -	•	Ì	
76-36 76-36 Few Spat feature No SC No May No May				-	-			l :		1 -		170	1:]] _][.	1		1 _	1 _	1	
76-36 76-36 Few Spat feature No SC No May No May					•							y	05	3	<u> </u>									_	_		
7-16-92 78-36 E-w Outl feature 100 Sp. Sp. Wo Sp. Wo Mag		_										_															
7-16-92 78-36 E-w Outl feature 100 Sp. Sp. Wo Sp. Wo Mag																											
76-36 E-4 OUAL 18-36 E-4 OUAL 18-92 No Sc			-	+							_																
78-36 E-W																											
78-36 E-v	16-92 10-92	Ove					1/10.9																				
	7	E-W			Low	Νo	No																				
		1-36	·																								
		7	ł		, ,	•	•	•	•														`	•	•	•	

• .

	7-1	7-16-99			
		<			7
		+		268	
		1		-	
Spor	Š	1		7.7	
`		十			
		十			
				7	
		-		des des des des des des des des des des	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
				3	
		-			
				1	
				216	
				79	
				•	
		-			A Partie of the

					-	Γ	-					المد		7		- ·		-	Í				ļ	<u>:</u>	;		•
						-		-				¥				•	-:		·			٠,		•	•	1	
				•••				-		•		ar	٠	·	-						>	18	*				
			_				•		-	-	Ŀ				-			1						į			
							•••			• .																Ì	
		_							_			щ		·	· ·											1	
				- •	•							24			-												
-			-							-	8	300		-			Ċ	-									
			2	- 1	F '	4	-		E			7	- 3		- -										= :	¥.	Ŋ
			_				-					208			-						Ì						
	<u> </u>		_	1			•.			-		tos.	-		-				-1				-				
					=		 .				ļ. :	706					•	-					•				
	_		-	·•	1				-:-		1 :	***			.		·										
	<u> </u>		_			-				٠.		8H	-		- :		<u>.</u>										
				-	-				-		1		 .	-		.							•				
			į	-					•		Į.	See			-									1	1		
	_	-		-		•	•					3	-		-	_	_										
		-	-		_	-						1		\mathbf{Z}			- ·							I_{-}			
			_									<u>.</u>		2												_	
				•			•	•	•		•	-		. •	_		•	•		•	•			•			1
	}	. <u></u> .	 1	. -	1	· 	: 		- 1 :	1	1	1		. • 1	- i	1	i i	1	1 :	1	i		ŀ				•
	-		 											· •	- 					-							•
																											•
)			•																								
) 																											
)																											
			604																								
٠ - ٦			1	1																							
76			On Grand	1																							
			04																								
			04			9																					
			1			406																					
			feeture On	\$4¢+																							
			feeture On	\$4¢+																							
			04	\$4¢+																							
	QA.		feeture On	\$4¢+																							
	0h		feeture On	\$4¢+																							
	74 - 40		feeture On	\$4¢+																							
	74 - 40		feeture On	\$4¢+																							

Sobrini Colored on Strange of Str			7.15-12			-		2	٠.		
		1						-			
								-			
Company Compan								\$			
Second Se							-	3			
					-		-	-	. · ·		
		:	fe luces	Ar a und							
		80					-				
		M						3			
							-				
							-	-	621		-
		-				616	T.18	* 1			7,000
							1	18	-	-	
						3				-	
							-				
			-						-	-	
			-					7			
		i	: -				-		-		
		<u>.</u>	!	;							
		i						*			15
		:						2			
		!						*		•	•
			-					-		9.8	•
		i	<u>!</u>							 - -	
	The statement of the great								'		

1							•							9-8	Ŋ				• •								7
			口											207					L			_		- :		1 -	
ı					_				_							_						-	_		`w	<u> :-</u>	
4		-	-			-								313		-	}		-	- - .				- >		< ∙	
					-		_							815	_					_	- .		_				
		-								_		• -		813								•		·	-	-	
1			_		-	-				_				Sof		-		<u> </u>				-	_		ļ ·		
														201				-							-		
											-			Ses	=	1		_	_			-	_	_		_	
						٠.,					-	[L	800		_		_	_	-			. ,		7		
ı				_	Ë . 3		- 5	[]	5 - 1	5		2		-	40.	*		-			3				-		
	W					:		-				_	گھو 	801	 				-						_		_
	•								_	_		5	—	•	-	-	-	_			-	-					E
ł										_	_			714	ł—			=					_			-	
				_		- ·			-					70	_										_		
						ł						-		772		- <i>:</i> -	٠.	1				٠.					
- 1						_				-	'			71%	(-		=						-		-		
ı								-			١.			418			=	:-:	ļ		.	· ·		_	1		
	_	-	_				· -				-		_	ــ. ــا	产	7/9	_										
				-		╄-	1-		_		<u> </u>		<u> </u>					-						-			
- (1	Ι	<u> </u>		1_	<u>t </u>	1			113	二			1			l <u>.</u>		l		1	ا ا	
ì														- 811	5							_					
1			1	ſ	ſ	1	1	ĺ	ſ	1	1	í	i	ı	1	ı	ı	ı	1	í	i i	ı	i	i	ŧ	i i	
		.					1					<u> </u>							l								
		}																						•			
				<u> </u>							-				_	<u> </u>	_	_									
		}																									
1										1		<u> </u>														1	
ı							_																				
ı						N	West				İ																
ł						ONOCIO	3																				
ı						2 0	- 19																				
7						OM																					
İ						. 1	. 2			2																	
ı	~					10	A		SC	Mac																1	
I	~					Ecture	•		-																		
- 1	1		- 1				رسم		Ŋ	No																	
	~		l	ı		٦	4																				
ŀ	7-16-72		- 	-								\vdash															
ı	-	7	1			K-W															j						
	j		- 1	ı		(ł					ĺ								1							
L		74.		- 1	ĺ	7							. }								į						
			-		•		·	-	•											•	•		•		'	•	
																				-		-					

Appendix F



APPENDIX F

SUMMARY OF UXO SUPPORT SERVICES

F.1 INTRODUCTION

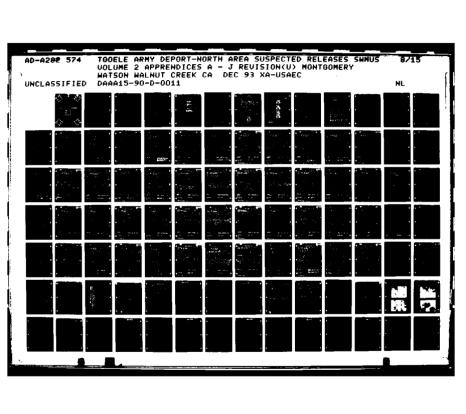
F.1.0.1. This appendix presents the Final Project Report prepared by UXB International, Inc. (UXB) regarding the unexploded ordnance (UXO) support services provided by them during the TEAD-N RFI field activities.

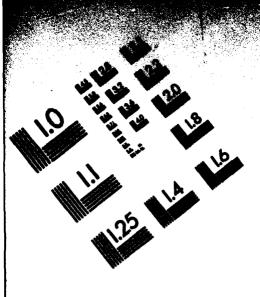
F.1.0.2. UXB International, Inc. is a private contractor, based in Chantilly, Virginia, that provides worldwide explosive ordnance disposal services. Personnel from UXB were on site in the Open Burning/Open Detonation (OB/OD) Areas for the duration of the RFI field effort there.

F.2 SUMMARY OF UXB SERVICES

F.2.0.1. UXB International provided the following services during the field investigation:

- Conducting surface visual and geophysical sweeps for UXO at all test pit
 excavation, drilling, and geophysical survey locations at the OB/OD Areas
 (SWMUs 1, 1a, 1b, 1c, 1d). This included providing personnel escort for safe
 ingress and egress in areas where UXO was suspected to be present.
- Providing personnel and equipment to conduct test pit excavation activities at the OB/OD Area for 125 separate pits.
- Marking and reporting any encountered UXO in a work zone. UXO was reported to the Range AED personnel for subsequent disposal.
- Conducting down-hole verification of the presence or absence of UXO at the nine deep soil boring locations at the OB/OD Area.
- Maintaining a daily Field Activity Log, which included a brief chronology of daily events, description of UKO encountered, on-site personnel, and visitors







lesselation for information and image Management

1100 Wayne Avenue, Suite 1100 Silver Spring, Maryland 20910 301/587-8202



Centimeter

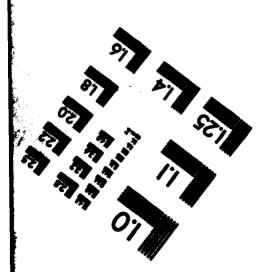
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 mm

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 mm

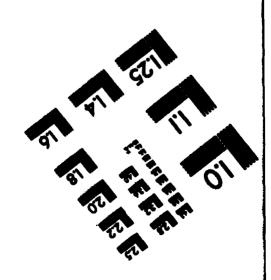
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 mm

1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 mm

1.25 1.4 1.6



MANUFACTURED TO AIIM STANDARDS
BY APPLIED IMAGE, INC.



Preparation of a project report upon completion of field efforts.

F.2.0.2. The remaining portion of this appendix presents the Project Report prepared by UXB. Included are copies of all the Field Activity Daily Logs, which were completed and signed by UXB field supervisor Robert Diekmann, and an enumeration of the type and quantity of ordnance items encountered during the field work at the OB/OD Area. The report is prefaced by a cover letter from UXB Project Manager Mr. Tom Yancey, and also includes a summary of UXB activities during the project.

fuzed cluster munitions in the area. This hazard was reduced to acceptable levels by removing the top 1 to 2 feet of fragment-ladened soil to allow better detection of subsurface ordnance.

This and other potential obstacles were openly discussed between JMM, USATHAMA, and UXB well in advance of any schedule impact and were resolved to the mutual satisfaction of all concerned.

Tom Yancey Project Manager

APPENDIX A SCOPE OF WORK PROJECT REPORT FOR THE SERVICES PROVIDED BY

UXB INTERNATIONAL, INC. 14800 CONFERENCE CENTER DR. SUITE 100 CHANTILLY, VA. 22021 (703) 803-8904

AT TOOLS ARMY DEPOT MORTH TOOLLS, UTAN

FOR
JAMES M. MONTSCHERY
CONSULTING ENGINEERS
4525 SOUTH WASATCH BOULEVARD
SALT LAKE CITY, UT 84124

1.0 INTRODUCTION

This project report is submitted by UKB International, Inc. to James M. Montgomery at the completion of UKO services provided at Tooele Army Depot North (TEADN), Tooele, Utah, during the period of May 26 - August 15, 1992.

1.1 APPENDICES

The scope of work is included as Appendix (A) and is summarized in section 2.0. Appendix (B) is a summary of the daily work log submitted by the UXB Project Leader. Appendix (C) is a list of ordnance items found during performance of the scope of work.

2.0 SCOPE OF WORK

The Scope of Work is included in this report as Appendix (A) and is summarized here. The project was divided into the following five tasks:

- Task 1. Development of the UXO related sections of the project Health and Safety Plan.
- Task 2. UXO services during test pit excavation and sampling in the Cluster Bomb Demolition Area.
- Task 3. UXO Services during test pit excavation and sampling in the Propellant Burn Pad Area.
- Task 4. Geophysical survey of transects in the Trash Burn Area. UXO Services during test pit excavation and sampling.
- Task 5. Report on completion of field work.

3.0 PERFORMANCE OF FIELD WORK

All UXO Services have been completed at TEADN with no job related accidents or incidents having occurred. UXB Project Leader was Site Safety Officer for UXO hazards and conducted daily tailgate safety meetings.

During the excavation of 121 test pits and performance of geophysical surveys associated with sampling and ground penetration radar, 192 live ordnance items and 11.9 pounds of explosives were recovered and turned over to Tooele range personnel for final disposition. Appendix C presents a list of ordnance items found.

This project was the first opportunity for UKB to support drilling operations using the percussion hammer system instead of augers. Concern over the strong vibrations produced by the rig were increased by the possibility of anti-disturbance and impact

ATTACEMENT A

SCOPE OF WORK

SECTION 1 - GENERAL REQUIREMENTS

1.61 DESCRIPTION OF WORK

- The work consists of furnishing all materials, labor, equipment, tools, transportation, and services for conducting unexploded ordnance surveys (UEO) at the Toole Army Depot, North Area (N TEAD) located in Toole, Utah. The work is to be performed at one site within N TEAD known as the Open Burning/Open Detenation Area, which is referred to as Solid Waste Management Unit (SWMU) Number 1. Work at SWMU #1 includes providing site clearance at four separate areas for: site inspections, borehole drilling and sampling, and field surveys. In addition, the work includes excavating and collecting soil samples from 142 five-foot deep test pits and 16 eight-foot deep test pits and providing site clearance for approximately six line miles of geophysical surveys.
- (b) Mebilization to and demobilization from N TEAD are to be included in the work. Only one mobilization is expected to be necessary. It is anticipated that field work will be conducted using a ten day on and four day off schedule.
- (c) A more specific presentation of the tasks included in this SOW is included in the following table:

SUMMARY OF TABLE REQUIRING UND

SUPPORT IN SWMU #1

Area	Activities	No. of Man Days (Estimated)
Main OB/OD Area	Site Inspection (assume one day) Test Pit Excevations -64 5-feet deep pits	1
	-2 seil samples from each (assume 1 pit/hour) • Support for 2 100-feet deep borings	8
	(assume 1.5 days/bole)	3
	Support for field survey (assume 1/2 day)	1/3
Cluster Bomb Domelitien Area	Site Inspection (nomine 1 day)	1

Area	Activities	No. of Man Days (Estimated)
Cluster Bomb Demolition Area (continued)	Test Pit Excevations -84 5-feet deep pits	
(caaremand)	-2 soil samples from each	
•	(accume 1 pit/hour)	8
•	Support for 2 100-feet deep berings	•
•	(assume 1.5 days/bering	3
	Support field survey	•
	(assume 1/2 day)	1/2
Propellent Burn Pad	Site Inspection	
	(accume 1 day)	1
	• Test Pit Ensevations	
	-6 5-fact deep pits	
	-2 sell samples from each pit	_
	(accume 1 pit/hour)	1
	Support for 2 100-feet deep borings (atomics 1.5 describes)	2
	(assume 1.5 days/hole) • Support for Field Survey	•
	(nesume 1/2 day)	1/2
Trash Burn Pits	Support for Goophysical Survey	
	-Six line miles	
	(assume 2,000'/day)	16
	 Test Pit Excevations (in old burn pit 	B)
	-16 8-feet deep pits	
	-2 sell samples from each	_
	(assume 3 hours/TP)	5
	Test Pit Excevations S-fact deep pits	
	-3 self samples from each	
	(assume 1 TP/hour)	1
	Support for 2 100-feet deep becings	•
	(assume 1.5 days/hele)	3
	Support for Field Survey	
	(accume 1/2 day)	_1_
	TOTA	L 88.5

Notes:

^{*} Assume 10-hours days Sell complex will be redicated at a rate of two per test pit and seven complex per burchele.

- It is expected that the JMM site geologist will collect most of the soil samples but subcontract personnel may collect samples in some hazardous areas.
- (d) The Subcontractor shall also be asked to provide pertinent information to be incorporated in the project Health and Safety Plan (HSP) and to review the plan as it is developed. This effort is expected to be limited to two to three days of review by the subcontractor.
- (e) Preliminary results of the UXO surveys are to be furnished at the time the surveys are performed.
- (f) A final report presenting the results of all UXO surveys is to be completed within 30 days of the completion of UXO field operations. The final report shall include the location, depth and nature of any UXO or munitions debris and the date on which it was identified. The final report preparation is expected to be limited to two or three days effort by the subcontractor.

1.02 PERSONNEL AND EQUIPMENT

- (a) UXB shall supply espable and experienced personnel, suitable analytical equipment, and necessary support equipment to perform this work. UXB shall also furnish additional information as per the Experience and Equipment Form as requested by Engineer.
- (b) A backhoe and steam cleaner will be required to perform the excavations at SWMU #1.
- (c) All personnel shall be required to utilize EPA Level D protective gear. Safety equipment and protective gear will be the responsibility of UXB International, Inc., and will not be supplied by JMM.
- (d) UXB shall have Level C protective gear on-site for all members of the crew. Atmospheric monitoring by the Engineer will be used as the criteria to upgrade the level of protection from Level D to Level C.

1.08 ACCESS TO THE JOB SITE

- (a) The owner will arrange for right-of-way to the work sites. However, UXB will be required to demonstrate proof of insurance for all vehicles and show current vehicle registration to obtain access to the base. Vehicles will be checked by N TEAD personnel and fire extinguishers in the vehicle are required for access to areas of the depot. All UXB personnel will submit the following information at least one week prior to mobilization:
 - (1) Full Name
 - (2) Date of Birth
 - (3) Birthplace
 - (4) Social Security Number

1.04 COMMUNICATIONS REGARDING THE WORK

(a) Communications regarding the work covered by these Contract Documents shall be addressed to the Engineer:

Mr. David Shank
James M. Mentgomery, Consulting Engineers, Inc.
4525 South Wasstch, Blvd., Suite 200
Salt Lake City, Utah 84124
(801) 272-1900

1.05 COMPLETION OF WORK

- (a) JMM will give UXB Notice-te-Preced only after receipt by JMM from UXB of the executed Contract and verification of all required insurance. The Notice-to-Proceed will include a mutually agreeable start date for the project. The project schedule and start date are currently being developed.
- (b) UXB shall provide JMM with the executed Contract, their intended work schedule, which shall include details such as specific equipment to be used, number and size of work crews, and projected start date.

1.06 PAYMENT

- (a) Payment shall be based on the percent of subcontractor tasks complete and will not exceed the total lump sum negetiated between JAM and UXB for this task.
- (b) The subcontractor should invoice JMM monthly and payment will be made only after approval of all invoices by the JMM project manager and after receipt of payment by JMM from USATHAMA.

1.07 RECORDS

- (a) At the end of each day, UXB shall submit a daily progress report that will include survey results and locations of anomalies. All daily progress reports will be submitted on a form that will be signed by the JMM field operations leader or other designated representative.
- (b) Instruments shall be calibrated daily. Calibration forms shall be submitted to the Field Operations Leader at the end of each day.

1.08 COOKDENATION OF WORK

(a) Not less than one week prior to mebilization, UXB and JMM will have a telephone conference to discuss the details of the project. This conference call is intended to address specific topics which may not be fully clarified in this Scope of Work. UXB's field supervisor assigned to the project will participate in the conference call along with the JMM Field Operations Leader.

ATTACHMENTA

TECHNICAL PROVISIONS

SECTION 2 - MATERIALS

2.01 GENERAL

(a) UXB shall furnish all materials, supplies, equipment, and labor necessary to complete the required work as described in Section 1.

2.02 TEST PIT EXCAVATIONS

- (a) UXB shall supply a backhoe and steam cleaner to decentaminate the backhoe.
- (b) Plastic sheeting used to line the excavations prior to backfilling will be supplied by UXB.

APPENDIX I

DATLY WORK LOS

8	DATE	5	Ī,	28 1	92
7	NO.		Ī		
3	SHEET		ŀ	OF	1

PROJECT NAME TOOM INTO	Denot Assaul	PROJECT NO. 508.01
FIELD ACTIVITY SUBJECT: FIELD /NV		708.01
DESCRIPTION OF DAILY ACTIVITIES AND EVER		<u> </u>
0630 Depart Quarters F	on Job Site, Fill	•
0710 annual Job Site Ble	chal in With Ran	ge Personnel. Parked
Stram Cleaner at decontitions from \$ 5-27-ifor di	n 1901. 60 cotted an aposal today lu T	~An
0800 tailora Cafety, 5 tart m 0930-1030 Delay for Poweler &	eiking Cluston Bomb	area ter Pots (M-582)
1030 - Resumed Statement 64 8	235W/4 40mm Pa	weethe, 90 mm Pagestile
1350-1435 lunch Rink, 20 Burn operation.	:	
1435 Depart with Survey Tea	mescons(Bob) and	Stake Remaining Tremak
CHEEL (TOM)		
1630 mouel Surry out , 1745 Departed Jolinte Gate	Locked by guard	s. was able +0
1830 arrived Quarters.	ute. (Lucky)	• • • • • • • • • • • • • • • • • • •
ORDNANCE HEMS (Liv 2 ca 314-3	e)	**************************************
1 cm M 582 Fuze	 .	
1 ea 2.75 warhead		·
• •	Le	
2 ea 40 mm Projecti	le	
VISITORS ON SITE: Rauge Safey	OTHER SPECIAL ORDERS	AND SPECIFICATIONS, AND S AND IMPORTANT DECISIONS. Lings Ulcased. Transf. 5 /4e > Led. Traff.s Court gre- Ludrie'r of Elegrad areq.
WEATHER CONDITIONS: 700 Clecur, Windy Cool	IMPORTANT TELEPHONE	

8	DATE	5	29	1	2
15	NO.				J
Z	SHEET) 0⊦	F

	worth JMM	PROJECT NO. 508.01
FIELD ACTIVITY SUBJECT: FIELD INVEST		
DESCRIPTION OF DAILY ACTIVITIES AND EVE	NTS:	
12 7 - 100 - Jan - Con 11	• • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·
obso Departed Quarders for 16		•
06-40 - 0200 awastnig June 40 open	PART THOU TO DEAD.	_
0730 - Teilpac Salty . Chan bucket	Storled digging to	est Pits. Hourded
23 cont for Survey ream C		· • • • • • • • • • • • • • • • • • • •
11:50 - 1300 . Lunch completed a	ar Ric Kain Dela	y to lighting.
13:00 Start to due tet fic.		<u> </u>
B:30 Put on holden test At	s chat! Tome mon	escoat Sury Cus
(Bed tom hadp with.	leasting tout Pits on	Mops.
15:15-Complite with annual		
security to look gates		
15: 40 - helping Locate test p	its on to MAPS a	d Catch inio up on
Paper Weak		
17:15 - Departel office for Qu	enteral.	
17:30 - Complete for day.	e en e en en en en en en	
	The located all	sit contamil burn.
Author of Adminis	ALASAUL APPORT	Serap. bomb + Antillen.
Fuzes, Nose, /tail, bomb		
* • • • • • • • • • • • • • • • • • • •		
•		*********
• • • • • • • • • • • • • • • • • • •		
• • • • • • • • • • • • • • • • • • • •	•	
• • • • • • • • • • • • • • • • • • •		• • • •
	· .	
• • • · · · · · · · · · · · · · · · · ·		
• • • • • • • • • • • • • • • • • • •	· · ·	
VISITORS ON SITE	CMANGES EROM BI AMS A	ND SPECIFICATIONS AND
VISITORS ON SITE:		ND SPECIFICATIONS, AND AND IMPORTANT DECISIONS.
VISITORS ON SITE:		
LARRY FISHER CONDITIONS: 703		AND IMPORTANT DECISIONS.
LARRY FISHER CONDITIONS: 703	OTHER SPECIAL ORDERS	AND IMPORTANT DECISIONS.
LARRY Fisher	OTHER SPECIAL ORDERS	AND IMPORTANT DECISIONS.

8	DATE	5	50	92
Š	NO.			
Z	SHEET	1	OF	1

PROJECT NAME Tooele Army Depot		tno. 508.01
FIELD ACTIVITY SUBJECT: FIELD INVE	Chartents	
DESCRIPTION OF DAILY ACTIVITIES AND EV	ENTS:	<u> </u>
1630 Deport el Questien des Jan	baile	
650 Depart el Querters for Jo 650 anniel Lot site		•
1755 tail gote Sulety july . at		
	in (west side) And starsted dig	pino toos P. +
145-1315 hunch Two test P	in Complete d and Sideran 30	1.
	•	
315 Reumed digging Test 1		<u> </u>
LIZ Completed STEET ALB C	ud decond fruit for Ton	nonow
No ordname time !	rettel went to Job site off	u: uailu
800-departed for situ for Ou	•	· · · · · · · · · · · · · · · · · · ·
130 - complete for days ap	retations	
no live mandre	items located in any of	do Test Kiles
mly seres fun	Debris, limt ordname	Defrio.
1		
The second secon	±	:
and the company of a special property and the company of the compa		· · · · · · · · · · · · · · · · · · ·
	rene de la compansa d	
ente de la compansa de la compansa destinativa en de la compansa del c		
		• 10 · e edi — e
<u>-</u>		•••
	•	••
		.00 **
ISITORS ON SITE: ARRY FISHER	CHANGES FROM PLANS AND SPECIF	
arry 11sher	OTHER SPECIAL ORDERS AND IMPOR	HIANT DECISIONS.
EATHER CONDITIONS:	MPORTANT TELEPHONE CALLS:	
por p bond one - por . por	المع	
•	l	
PERSONNEL ON SITE.	010	
PERSONNEI ON RITE T	A 14	-

8	DATE	5	17	92
15	NO.			
3	SHEET	,	/ 0	

PROJECT NAME TOORIC ARMY Depot	North JAM PROJECT NO. 508.01
FIELD ACTIVITY SUBJECT: Field INVEST	
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS	S:
0630 Departed Quarters ofon	e Lab Site
0650 anne dob site office?	inder
0.706 - 70:00 - 400-	nonen mand diseus Test and accomme
The state of the state of	oour maps dums tet pit aus
1230-1300 Kunch true test Pulo	to the second se
1300 - Resumed digging test Rit	30-1 Pag J.h. 201
1142 - compared that put you do	y. 3 complete in PM. defertel for Job
- water of the water	A
1810 - departed Job site office trans	
1830. Complete for dy.	
voidnaire	tens locatel. all pet containel
- some buin rendue	La buent ordinance debus
3 small presen (38.)	of that on surface. MIIO bomb
Fuze-, Antillary Fuzes	, Ammunition Containers,
	:
	<u></u>
	· · · · · · · · · · · · · · · · · · ·
<u> </u>	· · · · · · · · · · · · · · · · · · ·
	·
	· · · · · · · · · · · · · · · · · · ·
17	
Live ordinance	
3 02. THT	w w
VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
WEATURE COMMITTIONS. SO !	IMPORTANT TELEPHONE CALLS:
WEATHER CONDITIONS: 303 Clear - Ann	MITORITANI IELEFINUNE GALLE:
Cloudy ewing in PM	
<u></u>	1
PERSONNEL ON SITE	Alen de la ale

DAR	SHEET	- 	OF	/
Y	NO.	1	i	
8	DATE	61	11	92
· · · ·	-3 Ax	4.6		

VISITORS ON SITE: Round in the Properties VISITORS ON SITE: Round in the total Dave Shank	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
leach somme Projectile	
	.
	•
	·
hive paduence beded	
Obdrance debais und	Some Misc debas
U.II. tost pite dug. t	o day contained bound fuzes Prajectile, adaptas bouckes, Mech time Fuzes, Some misedebas
1950 - Compide for day	la de la de
Not Start	
then on to primary	Sterm Cleaver of the other we worth
Pumped out deeper pa	d ento Baenels. Quenter. deepped tem ill at 1830 Steem cleaner as the other one would
1:130 - Countries tock Jile Cap	Day 4 completed decoved beekhow _
1600 - Resented Teet Pits.	
14:46-Dolan la Rian accont	y. Blie-3 Armedwith Striken Plate)
1014 Delay for Brun apera	tion and lunch
0745 deported Dite office tractor.	& land text tits and start text fich digging
0720 Tel att Solet Why	
Tout gate safety Mig.	trailer, babel equipment, awaiting.
Obso repensed Quarters for July	Trailer haded earnowed and
Mazo Descent d'Assertance La []	 ! ~!#
	'5 :
FIELD ACTIVITY SUBJECT: FIELD INVESTIGATION OF DAILY ACTIVITIES AND EVENT	stigation s:

8	DATE	6	2	92
7	NO.			
3	SHEET		٦,	

PROJECT NAME Toole Anny Depart	discitto 1 1141	PROJECT NO. 508. 01
FIELD ACTIVITY SUBJECT: Feld INC		
DESCRIPTION OF DAILY ACTIVITIES AND EVE	NTS:	
A 0.4A	4- Man 2	A A A 1 A :
0630 - Departer Quarters to fill	Steam Cleaner Bar	her and then to Job eite
0710 - at lof size office trade	u amathy Safity !	Me.
0710 - at lof site office trade 0400 - departed office to se	+ up decou Tanile	on And Prepare for
Test P.+ Digging	• • • • • • • • • • • • • • • • • • •	
1030 - delay Burn operation	~ <u></u>	
1125 - Resumes test hit deginer_		<u> </u>
1440 - delay, Burn apenetion.	and Antonion of	Hems we Located
1515 - Blanted Cleaning Test Pin	s of Tompages a	re natrius
1700 - Finished Cleaning 2 Test	Pite Coublander Par	sticky Clear than as the
15 To many deep contact	to will have to use	Rackhar
1730 - Amuelaled a Departures (Complete	ed 2 station Go TA
1730 - completed operations f	Did a sounded	ed 90 mm thell cassing,
No rive akanance in	tion and Nico	no longer dobain and
S./ Mill. S. Carlotte St., 1. 1. A. A.	siewes, and mark	pelmenee debais and
		e pois also contained
alital Scrop Debais)	•
		<u></u>
		••
Live badwaver bocoled		:
Zea 20 mm		· · · · · · · · · · · · · · · · · · ·
Ica Antilony Fizze (Phonics)		•••
I ca TNT Supplemental Change	Pastial)	
1-ea. 40 mm Pros.		
VISITORS ON SITE:		S AND SPECIFICATIONS, AND RS AND IMPORTANT DECISIONS.
	Keewood Kadib Fa	on Anno for soutact with
	denies province	operations they will me?
	Capal west the	y Rosaine busylleteentein
WEATHER CONDITIONS: 90%	April The Property	il stie us trais.
Cure .	Tom Yang about	A I B a of dekte
	Day Shows of	4 the classes

8	OATE	6	3 !9	2,
5	NO.	1	į	
3	SHEET	1	OF	/

PROJECT NAME TOORIS Demy Depo	OF NARTH JAM PROJECT NO. 508.01
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS	gatian
0630 -departed Quarters for John	Site
0650 - ARRIVED Job Site TRAILER	
0750 - Went to tranch sile to f	Repar site for transling
	36 Cal, BANG FIRES, TO MAY NEAP, AMINO
Containe Residue, Mise	
1116 - Test Pit Contained Noil	vincet mise five Metal Residue.
1300 - Delay Bam operation	
1330 - Resumed test Pits & work	Pit contained Fuse Residue And Sour Made/
1500 - Stapped Cleaning Test Pulifo	(smage)
1700 - Completed Cleaning 4 0	RCa 8 for tomorrow. Could only Partitle
Clear Then as to man	y deep contacts that require use of
Bush her. Departed.	for Quarters 3 Test Pits Completed.
1730 - dupoul all your at	Quaters. The on to get ful for Bish
has then onto such u	pulater tank Requested by JMM.
the achel that a pink is	if as we had Dent wating with A local'
Pental Company the Tan	tother was not ready as 400 x would
	Francia trailer will be for De Con_
	Security Form to office!
1630 Completo for day.	
, -0 4	· · · · · · · · · · · · · · · · · · ·
his ordrame time	
1/2 31A-2	· • • • • • • • • • • • • • • • • • • •
1 40 mm	
3 02 48	
VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND
LARCH Fisher + 1	OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
EATHER CONDITIONS: 80	IMPORTANT TELEPHONE CALLS:
agreement on agra-	
PERSONNEL-ON-SITE DIEKMANN OF	Maill +Jaam

8	DATE		4	92	
1 / 1	NO.				L
70	SHEET	7	Ol	= /	

PROJECT NAME Topole Denny D	and North JAM	PROJECT NO.	र्ड ७।
FIELD ACTIVITY SUBJECT: FILL IN	ivestigation	·	
DESCRIPTION OF DAILY ACTIVITIES AND	D EVENTS:	:	
0030 - Depart Quantons Con	المام المام		
0650 - Annual Job site cu	maintene Tailoate Sala	L MEG	
ATHE : Approx Translation	Promo for testa	to diamen	
0745 - arowel tranch sile	Tripopole to to to the	e bould as a	
0900 - Test Pit Contained	a francisco de de la constante	Laying North	C. Second
The man/5 cass	s totally determined		AIRERS OF
in the second of	6.000 1 29	Llot of Very	
1045 - Test Pix contained	ie jew kases tome de	me small	FERIO METRICA
	santsog		
1139-1200. Lunch.			
1300 Recurred operations			+++++++++++++++++++++++++++++++++++++++
328 - Test pir contained a	riames of give was	idena Lin Dadki	ansed and
Metal Fraguents.			
500. Terr Pr Contained	Randle Keschne-ta	on_LSS.mm.	and Smaller
Appeared to be a pit of	sa burning Candle/i	Llung Roands.	Ma Lie
1615: Stanked Cleaning. te	ist. Pits Fortues d	Kenned	ell & appeared
1615: Standed Cleaning to From Ringe: area: 1 Test Petrapeas for	for Break limished	Cleaning/Pa	nsially 4 leaves
700 - un loaded Equipmen.	at Thailen, and dep	exted. S.tc.	
1700 - un loaded Equipmen. 1730 - Complete for day	No openance (Lin	ve) hoested :	today.
	:	· • • •	
	; •	•	
•		•	
			1 111
VISITORS ON SITE:		NNS AND SPECIFICATION DERS AND IMPOSTAN	
	Tool is a Repute	u did not dely	DECISIONS. JOHN WORL THAK
	Material	•	y JAMAN OSKAN
VEATHER CONDITIONS: 803	IMPORTANT TELEPH	van Krilget	sately 4 triology
Lear Claude		runs unile:	
-			
	i		

3	SHEET	7	/	OF	/
7	NO.				
		1			7
	Section 1		44	59.8	

COROLEGE MAME - (A)	11 - 4 - /	PROJECT NO.
FIELD ACTIVITY SUBJECT: FIELD JALUE CF. DESCRIPTION OF DAILY ACTIVITIES AND EVENT	Nenth mm	PROJECT NO. 508.01
FIELD ACTIVITY SUBJECT: Field August	gation	
DESCRIPTION OF DAILY ACTIVITIES AND EVENT	3 ;	
0630 Departed Quanters For Jo	65,40 :	
0650" arrived Job site. Pasition	ed TANK TRAILER	, Buch her and Steam
Cleaning Trailer on Range		
0750 - asserting JMM		
0745 - CON Luck & Salate MTG		
oreo - deput sive traiter to dece	n beekhoc and fac	pore area for diggrey
0940- Pit contained 30 gal april	laum 105, 155 ands	und Flore Candle Rost de
105 Sunke Commisters . 6"+	2" Pipe Pieces,	hold Rings Of Same Sout
Banding Material . No Live	ond mance.	
1125 - Ptr Contained No Dadware	e Residue that a	uld be lesoonized Son
wood-seed-woring - Copper	aesidu.	
11:45-12:15 Land		
3:0 - Prit Contained Banding unterin	1.3.5" Containers	Mige Debaie - No commone
16:44. P.s. a. Touris Beautic Wilmin	1 3.5" Containe	was Debais on Live Gadage
16:44. P.4 Contained Banding Haberla	and Com Yours and	
15:00 Stated Cleaning Test Potion	toto the condition	standed Ed in a get
17:00 Completed Cleaning 4 tes Site Trailon. deposted	Con manifest Aller Tr	alon
17 as . Frances Office tenilers IN	Conned Deb that	we ared Aggered To
Revoi Badges & Vehicle	Property of the same	ct Spieson Scholal
Reguested last week	Mahe merime	SA DISTRIBUTED DEFENSE
1800 - Complete Gor day	4 Pits Compies	
	•	
Live ordnesse tocated		
2 - Blu 3 Fuzes		
6 - 20 MM	CHANGES SECURI ANS	AND SPECIFICATIONS, AND
VISITORS ON SITE:	OTHER SPECIAL ORDER	S AND IMPORTANT DECISIONS.
NEATHER CONDITIONS:	IMPORTANT TELEPHON	E CALLS:
Clear. Not		
Light Rain in PM		
PERSONNEL ON SITE: DISKMINAN ON		
THE PARTY OF THE P	FILL TURK	

8	DATE	6	10	92
E	NO.			
3	SHEET		, 0	

INCO TOMPLE DESCRIPTIONS OF DESCRIPTIONS AND EVENTS: DESCRIPTION OF DALLY ACTIVITIES AND EVENTS: DESCRIPTION OF DALLY ACTIVITIES AND EVENTS: DESCRIPTION OF DALLY ACTIVITIES AND EVENTS: DESCRIPTION OF DALLY ACTIVITIES AND EVENTS: DESCRIPTION OF DALLY ACTIVITIES AND EVENTS: DESCRIPTION OF DALLY ACTIVITIES AND EVENTS. RESCRIPTION OF DALLY ACTIVITIES AND EVENTS. RESCRIPTION OF DALLY ACTIVITIES AND EVENTS. DESCRIPTION OF DALLY ACTIVITIES AND EVENTS. DESCRIPTION OF DALLY ACTIVITIES AND EVENTS. DESCRIPTIONS ON BITE. DAMA SHOW COR. DESCRIPTIONS ON BITE. DESCRIPTION BETT. DESCRIPTION BETT. DESCRIPTION BETT. DESCRIPTION BETT. DESCRIPTION BETT. DESCR	PROJECT NAME Toosle A	non Dager	worth	Lease	PRO	JECT NO	50	8.0	
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: 0630 - Departed Guenters & For abob Site 1650 - Arrival of the Site. Translan, hooded agreement and Arrival Johns. 1730 - departed for track Pit Claur. Pur para for Chiquin, agreeding 1855 - Transla Conginent Small Rims was a Pad Chungtonian Describe about the 1800 - Departed Loudiner Small Rims was a Pad Chungtonian Describe about the 1800 - Peternament Northise. Delay para to this test A.T. had to Paleste 1800 - Peternament Northise, duy have Pat Trujing To hoode translation 1800 - Stranslation of American and have peter pits, their Clausing Toly Pits and 2000 - Completed Clausing of American Pats, their Clausing Toly Pits and 2000 - Completed Clausing test P. L. asso, Union ded Completed of Description degasted for Quarkins 1800 - Complete For day, 13 Pits complete 1910 - Langlete For day, 13 Pits complete 1910 - Langlete For day, 13 Pits complete 1910 - Langlete For day, 13 Pits complete 1910 - Langlete For day, 14 Pits complete 1910 - Langlete For day, 15 Pits complete 1910 - Langlete For day, 16 Pits complete 1911 - Pits addition of the Pits of the P	FIELD ACTIVITY SUBJECT: 🧲	all west	en Lion				-		
1350 - departed for Teat P.F. and P. M. Jones for dispense operation against the SSS - Topick Confirment Shad Redamner Flad alumitismes Desides against the Live operation of Delay pains to this TEST P.T. had to Delay pains to this TEST P.T. had to Delay pains to this TEST P.T. had to Delay for the P.F. that to Delay pains to this TEST P.T. had to Delay for the P.F. that to Delay the P.F. that Congress to the Delay to the Test P.T. that Congress to Delay to the Delay to the Delay to the Delay to the Delay of Delay to the	DESCRIPTION OF DAILY ACTIVIT	TIES AND EVENTS:	,					: 1	
1350 - departed for Teat P.F. and P. D. Dang Gorges and Secretary against the Secretary against the Live ordinance with the part of the Mest P.; had to Debag part to this Mest P.; had to Debag part to this Mest P.; had to Debag part to this Mest P.; had to Debag part to this Mest P.; had to Debag part to this Mest P.; had to Debag part to this Mest P.; had to Debag the P. Training To Locate Transch Second them. 5.45 - 714 contains of the Mest Test P.S. their Clarating Test P.S. th	NE 20 - Deponted Que	ntens for.	1.2 dd	• • •		1	that c		
1350 - departed for Teat P.F. and P. M. Jones for dispense operation against the SSS - Topick Confirment Shad Redamner Flad alumitismes Desides against the Live operation of Delay pains to this TEST P.T. had to Delay pains to this TEST P.T. had to Delay pains to this TEST P.T. had to Delay for the P.F. that to Delay pains to this TEST P.T. had to Delay for the P.F. that to Delay the P.F. that Congress to the Delay to the Test P.T. that Congress to Delay to the Delay to the Delay to the Delay to the Delay of Delay to the	(C) comined the c	L Tanken	hoodes	Cl ma	neu-	(Spok	mes in	io N	me
The Piternian Lothing Delay Pain To this Test Pit had to Paleade test Pite and had shall traited on Sice 100-1330- Lough EMS - Pit contained had shall traited on Sice EMS - Pit contained had had shall have Pit truining To hosolise transch bloo + Strated meaking of Pites Pits + Have Claracing Tast Pits and and append them and contained blooming test Pit and Mulanded Emisgramment ou Biso Tampler departed for Quantitie Biso Tampler departed for Quantitie Biso Tampler departed for Quantitie The same 10 mm 1 ut fure From science beneficial The profit on butter The profit on butter The profit on the precipications and mitoritant decisions. And Trained Conditions: MEDITARI TELEPHONE CALLS:	730:- dem. tell /~ Te	ALPIA CALA	Para	7	ducas	<u>.</u>	ملمور		
The Piternian Lothing Delay Pain To this Test Pit had to Paleade test Pite and had shall traited on Sice 100-1330- Lough EMS - Pit contained had shall traited on Sice EMS - Pit contained had had shall have Pit truining To hosolise transch bloo + Strated meaking of Pites Pits + Have Claracing Tast Pits and and append them and contained blooming test Pit and Mulanded Emisgramment ou Biso Tampler departed for Quantitie Biso Tampler departed for Quantitie Biso Tampler departed for Quantitie The same 10 mm 1 ut fure From science beneficial The profit on butter The profit on butter The profit on the precipications and mitoritant decisions. And Trained Conditions: MEDITARI TELEPHONE CALLS:	ASS. Toront Constitute	a Suall River	es & Fled	alum /Bai	ACL DO		20404	اور	اندا
The Piternian Lothing Delay Pain To this Test Pit had to Paleade test Pite and had shall traited on Sice 100-1330- Lough EMS - Pit contained had shall traited on Sice EMS - Pit contained had had shall have Pit truining To hosolise transch bloo + Strated meaking of Pites Pits + Have Claracing Tast Pits and and append them and contained blooming test Pit and Mulanded Emisgramment ou Biso Tampler departed for Quantitie Biso Tampler departed for Quantitie Biso Tampler departed for Quantitie The same 10 mm 1 ut fure From science beneficial The profit on butter The profit on butter The profit on the precipications and mitoritant decisions. And Trained Conditions: MEDITARI TELEPHONE CALLS:		O LA DR. SARA	e Recidin			:	1		
160-1370-Lunch 145 - ?it paloin.cl wothing due hang P.1 Trujing To Locate Tranch 160 - Strated Marking off Mark Test Pits, their Claracing Test P 25 and 160 - Completed Claracing test P. 4 and Mulacated Egregarised on 160 - Complete Goa day. 3 Pits Complete 170 - Complete Goa day. 3 Pits Complete 170 MM	Live - Disserting of As	athere Del	au Davas Y	م حلمه م	1981		4	04	hacke
100-1330-Lunch 145 - Pit paloin of softhing dry hand Put truing To Locale Tranch 100 - Strated marking off man test Pits, their Closering Tay P 25 and 200 - Completed Closering test Pit assa. Unionaled Garganiset ou Sito Trancer departed for Quantities 20 - Complete Par day. 3 Pits complete. 20 - Complete Par day. 3 Pits complete. 10 um 2 as ma 1 ut fure From educto sociale 1 other special orders and important decisions. 2 and Silon (cor) 3 Pits complete And important decisions. 3 Pits complete Prompleme and important decisions. 3 Pits complete Prompleme Calls:	to a state of	had indition	A brong in						
145 - Pit topion of Lothing deg hand Pot trying to hotely tranch 150 - Strated Marking off Mans Test Pits, their Classing Test Dits and 150 - Completed Cleaning test Pit asso. Unloaded Companies to 150 - Complete For day. 3 Pits Complete 20 - Complete For day. 3 Pits Complete 10 und 2 and 2 und 3 pits Complete 4 und 4 und 5 und 6 und	_	· Manager Very							
The Constitute Character for Character Complete De Campleic For day. 3. Pits Complete Of the Complete Complete Of the Complete Complete Of the Complete Complete Of the Complete Complete Of the Complete Complete Of the Complete Complete Of the Complete Complete Of the Complete Complete Of the Complete Complete Of the Complete Complete Complete Of the Complete	C C C . 2:				7.			-1	11
Solo Tamilar departed for Occasion B) Complete for day. 3. Pits Complete. B) Lample for day. 3. Pits Complete. C) OZ HET 40 MM. 2. 20 MM. 1 UT Fuze From scients bearing. BITORS ON SITE. MAN SITE. CHANGES FROM PLANE AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MANAFISIONS I Roy MATTHER CONDITIONS: METORTANT TELEPHONE CALLS:	his smale and	Service Co	They Due	the state of		446 7		2.	
THE CONDITIONS: NO. Congleted Clearing test P. 4. ases	DO - STARTED /MINICI	Og	موني دينو	, man.	UGA.	rige		7.5	
ive padvames (sealed 1. oz HF 40 MM 2. 20 MM 1 VT Fuze From ediche besies 111 111 111 111 111 111 111	CILED COMPANY	TOTAL CONTRACTOR	i .	i i					11
ive padvance located 1. oz HF 40 MM 2. 20 MM 1 VT Fuze From screen bester 1011	the - completed creat	Line Test Pie		WW MO	LEGC	7			
INC. DELIVATIONS: WE DELIVATE CONDITIONS: WE DELIVE CONDITIONS: WE DELIVATE CONDITIONS: WE DELIVE CONDITIONS: WE	Silo TAArler	-departed i	ren Chicae						
THE BECOMMEN LOSSIES CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. EATHER CONDITIONS: MEDORTANT TELEPHONE CALLS:	ED - Complete topda	4 3_F.+9	Complete	اسودما أدعوه مدر	<u> </u>			+++	+ 7
THE DECIMAL CONDITIONS: We desired CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MANY FISHER CONDITIONS: METORTANT TELEPHONE CALLS:								! 	++
THER CONDITIONS: We desired Changes from Plans and Specifications, and Other special Orders and important decisions. MACH Silver (Cor.)						· ••• 		1 1	
THE CONDITIONS: We desired CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MANY FISHER CONDITIONS: METORTANT TELEPHONE CALLS:			: .			•-	· • · · · · · · · · · · · · · · · · · ·	++	
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. RATHER CONDITIONS: MACHINE CONDITIONS: MACH	i .	• • • • • • • • • • • • • • • • • • •			·		; ••• • •	++	
HO MM 2. 20 MM 1 VT Fuze. 1 Fire edothe benefat. 13/10/15 ON SITE: 10/10/16 ON SITE: 11/10/16 ON SITE:		•	•	• •• ·	··÷ ·			+	
HAM CONDITIONS: WHO MAN LANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MANUFISHER CONDITIONS: MANUFISHER CONDITIONS: MANUFISHER CONDITIONS:		•••	•						
THE ACOMO DOSSES. ISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. ARAJ FISLARY Roy RATHER CONDITIONS: IMPORTANT TELEPHONE CALLS:	b. oz ht		:	• 9	• • • • •			-	_
PARE ACOMO BITE: ISITORS ON BITE: OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. ARALIFICACIÓN BOY EATHER CONDITIONS: MPORTANT TELEPHONE CALLS:	. 40 MM		•		ъпо р .		, 		
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. ANALY FISHER CONDITIONS: IMPORTANT TELEPHONE CALLS:	2 domm				. ••			1. 4	
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. ANALY FISHER CONDITIONS: IMPORTANT TELEPHONE CALLS:	1 VT Fuze							: 1	. <u> i</u>
MANY FISHER + 1 Roy EATHER CONDITIONS: OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. IMPORTANT TELEPHONE CALLS:								,	111
EATHER CONDITIONS: IMPORTANT TELEPHONE CALLS:	Maitors on Site:	•							
	May frober 1 Roy								
	•								
	E ATHER COMPLETIONS.		MARCETANT	TEL SELECT	R CALLS				٠.
ione lefte Rain			- AND THE STATE OF	· SLEFFIUR	# UNLL	•			
	Lake Ram								
	The same services								

š	SHEET	7	OF	/
Ξ	NO.	1	1	
8	DATEL		1	92
	45 44			

PROJECT NAME Topple ARMY Dep	of North Jam	PROJECT NO. SOS. 01
FIELD ACTIVITY SUBJECT: Field INCH		
DESCRIPTION OF DAILY ACTIVITIES AND EVI	ENTS:	
0615 Deputed Quarters For		
0650 - Argued dobsite Loaded	Equipment, Awais	ing JMM Conducted Soly MAG
10035 - departed for Hest-Pits, Pa	epone Site	
0735 - departed for Hest-Pits, Pr 0915 - Teep-pit contained Burn while exemption.	(Metal Stag) Residue.	I MYY GRENELE found
10:05 Delay Bulletoperation &	lus visitore	
11:00 Resource digging appeared	ons. Pit contained	
13:00 Pir Contined Some Barre	, Residuo No Aduma	sce
19:40 Fit Contained Some Mobal	Fragments almost No	whim. No 9 Advance
1774 Took back hoe to Job	site Office For M	edanic to weston
by double hose teak		
14:50 StantelCleaning Test P.	t Sites for Next	day.
111 move and alay along the 1111	looked Eine Wil	· · No
17:30 Completed at aperation	senoued how / sac	hoe La repair
17:30 Completes all aperation	we for the day of	Pits Completed
·	,	
_		
Live on Duance flows located.	•	
1 - Unknown Man		• • ••
1 - Mt 93 Boss Buse		
4- 20 MM		
. Fuez Base Cap		
- MY Brande		
VISITORS ON ŞITE:		AND SPECIFICATIONS, AND
Many Ellan Respirer	OTHER SPECIAL ORDER	S AND IMPORTANT DECISIONS.
Cloudy - WINDLY - HOT	MORTANT TELEPHONE Many Eller August average thing She	e CALLS: Was very Meason with And Sear.
PERSONNELON SITE: THE		

1.V LOG	DATE	6	12	192
	NO.			
WO	SHEET	,	0	

PRESENTION OF DAILY ACTIVITIES AND EVENTS: 6659 - Departured Quanters For the Syrie 2650 - Departured Job Site Provides and Events: 6659 - Departured Job Site Provides and Events: 6659 - Departured Job Site Provides and Events: 6659 - Departured Job Site Provides and Events: 6659 - Departured John Wild Resident And For the provided Resident to description of the Start Created with the provided Resident and the provided Resident Control of the Start Control of the Provided Resident Con	PROJECT NAME Topole Asom Depot No.	ath SMM	PROJECT NO. 50	8.01
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: 6659 Departed Quanters for the Site 7185 Departed Quanters for the Site 7185 Continued Secretary Life. 1825 Nections (finished 1) 7th back live reputif from test p.7 concerts described to the state crossovers. 7185 77 Contained Some Metal Resides All Contents Lid From the State Contents of Taking Hyd Flind copen. Contents Reputif Co. Chere have a view Part Lesion in Taking Will Replace in Par when the Columbia. 1110- 714 Contents Some Metal Trans. Trank hard copens of the March Metal Loyers. 1110- 1200 Lewish 1210- 1200 Lewish 1210- 12100 Lewish				•
0650- ARTIVEL JOB SILETTERION: AWAITING JULE OR JEST PIT PRIEST TO GROWN JULY STORE CITY LINE. 1915- Pit Contained Some MITEL Residue. Had, (Mulesmul) Lill. Fring alland. 1915- Pit Contained Some MITEL Residue. Had, (Mulesmul) Lill. Fring alland. 1916- Pit Contained Some Making plyd. Flittle Congoin. Contained Restrict Co. Completed Some Making plyd. Flittle Will Region. in Pre Will. we study the Layers. The Lill Region in Pre Will. we study the Layers. The Layers. The Layers. The Layers. The Layers. The Contained Some Making. From Making. For Many Paper in Soil Burly 19 Other Motion Resident Press. 100- Pid Contained Making those to the Many Paper in Soil Burly 19 Other Motion Resident Press. 105 Site Tearlow, For Many Paper in Soil Burly 19 Other Motion Press. 106 Congleted Clearing and Mankeric, Test. Pit Arreas United Society. Paper in Site Tables. 106 Congleted Clearing and Mankeric, Test. Pit Arreas United Society. 106 Congleted in Dass. 106 Congleted in Dass. 107 States From Plane and Desirections. 108 Congleted in Dass. 108 Congleted in Dass. 108 Congleted Congenitions for day. Y fast pits 108 Congleted in Dass. 108 Congleted in Dass. 108 Congleted Congenitions for day. Y fast pits 108 Congleted in Dass. 108 Congress From Plane and Desirections.	DESCRIPTION OF DAILY ACTIVITIES AND EVENTS):		
1805 - Nechanic Finished With back be deputed from test pit comments of the Stock crossoctoms. 1875 - Pri Contained Some Mutal Residue Path (Recised Red Path Contained Some Mutal Residue Path (Recised Red Path Contained Red Path Contained Red Path Contained Red Path Contained Some Metal Frag. Thank had flower, so all Beauth Residue Register to fine White Register to fine White Residue Register Residue Register Recised Residue	6650 - Dependent Quanters For J	d Sue	· • · · · · · · · · · · · · · · · · · ·	
1825 - Nechania (initial with back love hapared from test pit accepted to decompose to Stock creamotories. 1945 - Pit Contained Some Metal Review Pat (reviewed Reptal Co Church Bental Reptal Reptal Co Church Bental Reptal Reptal Co Church Bental Reptal Reptal Co Church Bental Rept	Mile - Southers Party 1744.			
PINS - Pic Contained Some Matel Residence . Ash , Carlemany Link Street allowed Banking Hyd Flind Coganic Consecled Reptited Cog Climber a way of the property in Taking Will Regidence in Par who was Charles . The way was the property of the way of the way of the way of the property of the way of the property of the p	alas - Nechanie Finished with box	Klue departed for	test A7 renece to	decom
1915 - Pir Contained Some Metal Review Ash, (Reclaim) Lied. From aller Bridger Started Restated Restated Restated Co. Chim huma a New Part Restain in Total Will Register in the way Shed below to fire when we shed below to the we shed below to the west of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the started Restated Res	4 Stoat exempetous.			
IJD- Pit Contend Some Melat Fray. There hardcover, 50 Cut Bull Bury Return Loyans. (8) 120-1200 Linch 130-7: Afferian Burlish page) byen in Soil Darly 10 other solmable Resident Pit Contends Melat debais some byen Rafidure. Backber There John Site Texison, For majurateura. Strated Cleaning Test Pit areas The Completed Cleaning and manding. Test pit areas Unitorded Equipment in Site trailen. Assited Backber Mechanic II. Fixing Backber. Got hacked in area. Jeo Complete aperations for day. I test pits I'm Burly Fuzes CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.	0945 - Pà containe Some Metal Re	side . Ash , Can	، يعيد كل المدا (المسيدي) و	eleane
IJD- Pit Contend Some Melat Fray. There hardcover, 50 Cut Bull Bury Return Loyans. (8) 120-1200 Linch 130-7: Afferian Burlish page) byen in Soil Darly 10 other solmable Resident Pit Contends Melat debais some byen Rafidure. Backber There John Site Texison, For majurateura. Strated Cleaning Test Pit areas The Completed Cleaning and manding. Test pit areas Unitorded Equipment in Site trailen. Assited Backber Mechanic II. Fixing Backber. Got hacked in area. Jeo Complete aperations for day. I test pits I'm Burly Fuzes CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.	Backher Street leaking by	d. Fluid egan. C	autoded Redtel C	o the
10- Pit Contained Some Metal Freez. That had special 30 Cut Pall Breez Resident Language Was Pit Contained Metal debais, some bean passible. Baskber Total 1945 Pit Contained Metal debais, some bean passible. Baskber Total 1945 Site Textion, fee may remove Strated Cleaning Test Pit areas. 105 Completed Cleaning and manderics Test pit bareas Uniteded Cleaning Test Pit areas. 105 Completed Cleaning and manderics Test pit bareas Uniteded Cleaning Test Pit areas. 106 Completed Cleaning and manderics Test pit bareas Uniteded Cleaning Backber Metalian. Assite Backber Metalics. 100 Completed in area. 100 Complete operations for day. I fest pits 100 Complete operations for day. I fest pits 100 Complete operations for day. I fest pits 100 Complete operations for day. I fest pits 101 There special orders and important decisions.	have a Now Part loving in ?	will Replace	ne in the when	10 Studen
LOYARS, PE 120 1200 LUNCH 120 1200 LUNCH 1200 LUNCH 1200 L	1110- Pit Contained Some Metal Fre	eg. TANK hadde	wer, so cu Institute	au Ratidu
1950 - Pillintain Branch Lagra Lagra in Soil Duly 10 other Motionals Possible 1945 Pir Contained Medical debasis some busin Residues. Booking Tourist and Los site Textilen, fore Marketenance. Structed Cleaning Test Pit areas. 1960 Completed Cleaning and Manderic Jest Pit areas. Unlos ded Equipment in Sixo taxilen. Assited Marketoc Mechanic II. Fixing Backhee. 90t Locked in acco. 1800 Complete operations for day. 4 test pits ORDLANCE Located 3 - BLU-3 Fuzes 1-20 mm. VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.	120 1200 LUNCA			
Job Site Tearlow, For May Alexander Street Cleaning Test Pit areas The Completed Clearing and Manderic Test Pit areas Equipment in Site Trailer Assited Reacher Mechanic Fixing Backher Got Locked in area. 1800 Complete operations for day. 4 fest pits I'm ORD LANCE Located 3 - BLU-3 Fuzes 1-20 mm CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MEATHER COMPUTIONS: MEATHER COMPUTIONS MEATHER COMPUTIONS MEATHER COMPUTIONS MEATHER COMPUTIONS MEATHER COMPUTIONS MEATHER COMPUTION	Day 2:48 and in Busy (ast laury) As	von is. Soil park	At other Melmal	Reside
Job Site Teatlery, Fore Majurtenance, Streeted Cleaning Test of areas. DIRG Completed Cleaning and mandering test pit areas Unitoded Cleaning and mandering test pit areas Unitoded Cleaning and mandering test pit areas Unitoded Cleaning and Mander Assited Machine Mechanica. Fixing Backhee. Got hacked in area. 1800 Couplete operations for day. I test pits ORD have becated 3 - Billy fuses CHANGES FROM PLANE AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.	1845 Die Bourhand Wales dahaie	Sour huges for	due Book har 7	A COL
PSG Completed Clearing and Manking Jest pit breas Unloaded Equipment in Sito trailen. Assited Reakhor Meahanic in Fixing Backhor Got hacked in care. [800 Complete operations for day. 4 fest pits ORDHANES FOR EQUIPMENT FUZES [-20 mm VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.	Joh Cite Teallon Com Morale	Acesse Streeted	leanin Test A	's agens
PSG Completed Clearing and Manking Test pit Breas Unitorded Equipment in Sito trailen. Assited Brackhoe Meahanic in Fixing Backhoe 90t hacked in case. 1800 Complete sperations for day. 4 fest pits ORDHANES Located 3-BLIL'S Fuzes 1-20 mm VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.	Par and Harking name Test Pit	OREGS		
Fixing Backhee Got Locked in ages. [800 Couplete operations for day. 4 test pits [100 Couplete operations for day. 4 test pits [102 DEDLANCE Located 3 - BLU-5 Fuzes 1 - 20 mm VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.			والمتحدث والمستحدد والمثر والمتحدث	
Por hocked in ago. 1800 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations for day. 4 feet pits 100 CDuplete operations fo	Equipment in sixe tabil	en Assited	Rackhoe Mechan	c
1800 COUPLETE OPERATIONS FOR day. 4 Test pits Live ORD LANCE Gooded 3 - BLU-5 Fuzes 1- 20 mm VISITORS ON SITE: CHANGES FROM PLANE AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MEATHER ECHOLITIONS: MEATHER ECHOLITI	Fixing Backhe			
Coo Couplete operations for day. 4 feet pits ORDHANCE GOODERS CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.	got hocked in agea.	• •	· · · · · · · · · · · · · · · · · · ·	
UNE DEPLACE LOCATED 3 - BLU-5 FUZES 1 - 20 MM VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS: (36)	1800 Complete operations	for day. 4	test pits	
ORD LANCE GOODERS 3 - BLU-5 Fuzes 1 - 20 mm VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. NEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS: 1 - 20 mm VIII		. •	· · · · · · · · · · · · · · · · · · ·	
ORD LANCE GOODERS 3 - BLU-5 Fuzes 1 - 20 mm VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. NEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS: 1 - 20 mm VIII	1	;	••••	
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. NEATHER COMPLTIONS: IMPORTANT TELEPHONE CALLS:	ORDLANCE Located		•• .	
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. NEATHER COMPLTIONS: IMPORTANT TELEPHONE CALLS:	3-BLU-5 Fuzes		: :	
OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. NEATHER COMPLITIONS: IMPORTANT TELEPHONE CALLS:	كالشنف المستخدرات التراز الاتران المستحدد المستحدد المستحدد المستحدد المستحدد المستحدد المستحدد المستحدد المستحدد			
NEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS: , 3601	VISITORS ON SITE:			
NEATHER COMPUTIONS: IMPORTANT TELEPHONE CALLS: 1 3000				-
Secure of the second se	WE ATURE COMMITME.	MEGSTANT TEL SOM	ME CALLS:	7000
lens - minder - hor intermed Tom obsert future date on so	Mar-windy - hat	Informed Ton o	bout future date	٠٠ ٥٠
bearing & Jeophysical Survey S.		looking & Jeoph	proces Survey S.	
PERSONNELON SITE DIELENAUN DUELL + JMM	PERSONNEL ON SITE DIEL	Len + Jusus	l	

TAB

F NO.	
B BATE G D	

PROJECT NAME TODELE	Hanny Depot 1	Joeth	Jun	PF	ROJECT NO.	508.0	1
FIELD ACTIVITY SUBJECT:							
DESCRIPTION OF DAILY ACT					:	:	
0630 - Departed Qu	المل مار بعادر		•	•	• • • • • • • • • • • • • • • • • • • •	··· :	
office change of			Loc	ME		-6-	4
0550 - Chrisol Shi 0745 - conducted	Sacration of the sacrat		ر رده اد د رده اد		The second		
deen Buch	t and prefore	for es	e hote. I	المداريم	TO TAS	- 117-6	
0930 - Pit Containe	d up paduana	se , 600	ue FR	29.			
1100 - Pix Collamos	Buen Rosi dine	Some	metal s	Sing. W	. Oed	روو علو	A Post Tor
130-Res Lunch			•		•		
1305 - Pit Contamod	الاحظامة الما	herer o	f Feas	No Bu	en Reside	حد	
530-P. Contained	And Water At	Real					i
Slanted Cle			<u> </u>		w had	44	× ×
Same Oil	Tile was a	. CHELS	.104		· / / / / /		SE LEBELO
Some of the			ļ	1116			
1645 Completed C	learing pit	THE S	ز. لايد لسطير ما	06.61	gupma	<u> </u>	3,142
mailen.	Month auto s	Fear (lean er	5. FC. 7	ace to e	والعد	N.C.
	n Table:				· :	:	
1730 balen ten	kfilled. Tal	ken to	obti	Ce Tre	by Len L	ok hu	oh+
Ris cussed	test Rit Sel	يدطساو			· · · · · · · · · · · · · · · · · · ·		
1745 departed	for Quarters			· • · · · · · · · · · · · · · · · · · ·			
1800 Complete	For day. '	4 00	Pil	Compl	بالمتله		
·				•		:	
	•			• ••	•	1	
Live Ordnewas Los			•	•	•	• ••••	
	latea					** - 4	
1 02 HE						• •	- +
VISITORS ON SITE:		CHANG	ES FROM PL	ANS AND S	PECIFICATION	IS. AND	1 keer
Lasay Fisher					IMPORTANT		.
•							
EATHER CONDITIONS:		IMPORT	ANT TELEP	HONE CALL	S:		
fundy Claudy -look.			_ -				
T T							
DEBECANNEL CALEUTE.			l ma 4				
PERSONNEL ON SITE	HERAND, ON	TILL +	MML		·		

8	DATE	6	14	92
7	NO.			
ă	SHEET		, 0	

PROJECT NAME TOO LE PAR	w Depot	North	Jemy	PROJECT NO.	50K.	01
FIELD ACTIVITY SUBJECT: FIELD						
DESCRIPTION OF DAILY ACTIVITIES A	ND EVENTS:		; :	•	: !	
0630 Departed Quantas	Con del s	ila . Pro	lead up	water tank	Skan	Clour
at office trailer	r and do	disense 1	ري طولي ح	e .		
0720 Owind Joh Site	Trailen	Londer	Equi	mena h Ou		Jun
0720 - anied Job site 0735 - Sefety Breford	Conduct	ed do	. 2	e Cove. Yes	- 000	
Exceptions			7			
0925 - Pit Contained Buen	Residue	Metal SI	مه مه	oten Bass	Len.	PO
Live And completion			: •		• •	
1055- 8:4 contained 3.	en Rieside	Le, GLASS/	Plastic Sing	No Bedue	nee ch	me
la a samat I Maria da 'I am	- A & A			•		• 1 1
13:00 Pi+ Coulon Burn Re	sidue, C	hes/Mastic	ا . معک	so ondres	ee ite	RAS !
14000 Rit Contain working		i				
Kino Pat Contained Not	• •	come d ba	ekhor			
15:3 STARTED Cleaning	Test pri	oneas fo	n: Jouron	sau.		
16:30 Stopped Cleaning ?	Pere to R	Min Con	plated	Cleaning (Seefee	24
2 Siles Manked					'	
- World Germant	• i =					
1700 Compeles operation	ice for de	4. 5	Piks (suplete:		
:	••	•		•		
***	•		• • • •			
			· • ••	•••		
Live Opdrames boarded.		•	: ••	••		
2 40 mm	Man			÷		
3- 20 mm	•				:	
1 - VT Fuze	<u> </u>				1	1
VISITORS ON SITE:	İ	CHANGES FRO	DM PLANS AN AL ORDERS A	D SPECIFICATION IMPORTANT	MS, AND DECISION	S.
WEATHER CONDITIONS:		IMPORTANT T	ELEPHONE C	ALLS:	•	
Cloudy - Cool						
•						
PERSONNEL ON SITE DIELEN	ARNA DI	SELL 4	JMM			
					-	

UIB

_		-£		
8	DATE	6	15	192
5	NO.			
3	SHEET		10	F/

PROJECT NAME Tooche A	un Desat 1	outh			PROJECT NO	. 508	.01	
FIELD ACTIVITY SUBJECT: Fig.								
DESCRIPTION OF DAILY ACTIVIT	IES AND EVENTS:					,	:	
9630 - Departed Quait	ten for John	عبل و	5 de					
9650 - anived John	te boaded	É	Druge +	Ama	MINDO JEL			
5740 - Contracted Sal							5.2	:
09:15 - Pix contained Bu	and delegis	Makel	Frac.	Wasd	Niceman		/	
· · · · · · · · · · · · · · · · · · ·		. •					/	:
1120 - 1055 Delay fo	and line	4	ate	diza D	PLC	anda	- 10	
1120 - Flattic on B	as to San	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•				
Bunkiles,			 	+	; ;	:		
1235 - Flat repaired.	nearly gree	- T	161 To	د محاسم	han Cala			<u></u>
1445 - Pitennames La	inches u	, ii	-ves, "		- h sieien	 , W	62 4	MEL.
THE STATE OF THE S	.,		i	i			- -	\vdash
1500 - Studed lleave	indi Lerii fii	Since			, ,	i		
200. Completed elec	عديم الحد	L PIE	ara.	· unio	aded.	E Bus	jorge	-
in site Tabile	n. d spente	d ton	Kuen	ters.	<u> </u>	سرمعي	L Ca	relete.
1800 - apartions Co	mpleie. In	u day	† ! .		:			++
				• • • • • • • • • • • • • • • • • • • •				-
		•• •••	<u> </u>			····	-	+
	•		•					<u> </u>
			• .		 •		_	<u> </u>
Live ondussee bested					•·•			
· M 4 -	•••			•	•	• •		
- vt fuce - oz he	• • •						: 	
Base fue								
40 M M	. •				•]
1-20 MM					• •		i L	
·BLU-7 Fuze					·			n
/ISITORS ON SITE:					SPECIFICAT			
		OTHER:	ar ecial U	nven a A l			MANAG.	
ATHER CONDITIONS: AM 4		INFORT	ANT TELE	PHONE CA	o bout s	seked	de. á	mo
Lold - Cloudy Rain,		sate		71	J			
High althouse manner	1 4000 5 1 fg	1						
Same ou mandair. Peak								
PERSONNEL ON SITE DUE		DETLL	ML+	ım				

8	DATE	6	16	92
7	NO.			
Z	SHEET	•	01	

PROJECT NAME Took Dany Depot	Nonth	Jun	PROJECT NO.	508.0	
FIELD ACTIVITY SUBJECT: Field INVEST	antica)				
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:		i			
			· •	····	
0030 - deputed Quarters for Job.					
0650 - annie Sol site Landel	Equipmen		utery de		
0735 - Conducted tengate Safety MI	9. ou hold	ou au	مل ونتصب	to Ra	ساليه
- the Site and aperation to	was Brufel	عسيا	د ماردی مه	م (المرا	
the Site and appetition to	be compaints	حملسك	إسلامك		
1130 - Pitcontained Large metal	Deine Large	Poaling	c of 62-1	o boss	be dot
Shell Regnerts. usgode. wo					
Tuiler out of 5'ile for Det		•			
145 1215 week					
1435 - Pit contenied a bas of Safity F	ma (Blanchal	1	her her	<u> </u>	
1515 - Stertel Cleanitest Pie acos	Gr. med c			 	
Is to the Date to Black and	vove reco				
1530- 1630 Delay for Blasting oferston	: A			+	
1630 Resumed Cleaning testo.	46				
1800 completed aleuming test	P.L. greu	FOR	Wast do	4 44	parei
Equipment to Site Triner	e defeat 4	ek 2 de			
1630. Complete for day. 2	Pits Co	uplate	d	!	
	:		• • • • • •		
Note: Explained to Diama he heres, ex constian	ow we wa	e Cica	mydicharg	. Clean	440
Technes ex cauchion	, Safety m	and an	count e	celusion	ance
and the Range.		. :	,		
	•	• •	•	··•· · · · · · · · · · · · · · · · · ·	
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	•	! :			
Live ordnance	•	••	•		
l or he				1 .	+ +-+-
1 Fuze Base Cup VISITORS ON SITE:	CHANGES FROM P	LANS AND	SPECIFICATION	OMS AND	111
LARRY Figher +1	OTHER SPECIAL C	ORDERS AN	ID IMPORTANT	T DECISION	S
Diamon Feireisel	Game in Millian Steep Stopes. c	Alle Dea	marker / Co		
	they being the	e sainty of	ica dicare	d. dis e u	es of m
WEATHER CONDITIONS:	MINORTANT TEL				
Clary - Rosa - Snow in high - cool	IMPORTANT TELE		tel of No	ed foa	- Pro-
•	for a Long or	Jumes"			• •
PERSONNEL CALRITE: D.	1				
PERSONNEL ON SITE DIEKMENAL . OA	IFUL, FUM	(M			

3	SHEET	. ,	OF	/
Ŕ	NO.		1	
	adi I	7.	171	72.
73.0	ventaling drains			

PRO ECT NAME / /	1	44 -11	1	PROJECT NO	Kall a l	
PROJECT NAME TODE			Jmm	PROJECT NO.	308.01	
FIELD ACTIVITY SUBJECT:	red investig	Padion_				:
DESCRIPTION OF DAILY ACTIV	IIIES AUD EAEU (2			•	<u> </u>	
0.630 - departed gar	anters for	Job Site	• • • • • • • • • • • • • • • • • • • •			
- 1 10	•		A	JAMES		
2745 - leadusted t	wil oute Sale	the Machine	. Cepaded	en test oi	Que.	<u> </u>
D745 - Conducted to Tou helped 5	tale out mon	is Tout &	d acon.	and I as	sated D.	يلمن
Tox to Teach	Pit Burn one	a foil Su	evey .			
1000 - Resumed test	P. Execuate	مبد				: :
1000-1115 - Delay Bu						
1215 - P.+ Container	Sniell Ace	es of FR	a No 01	during 1	in .	:
Hop- Pix Combo Med						den -
1530 - P. 1 Contone	Auge o Auge a tre	Fra	+ Date wate	Opding -	-	
1545 - Child Cleaning	testifit and	Case Nells	متسلمين معا			
17-20 - Complete Cl	ters ters	کند عدم	. Ilalan D	£	L LL	
	dir. mole	الم الله	· Tapiles	U		
1730 - doched in a	0.00.0		inada:	·		
100 a - i A was Little	~ ^ ^	/#				11
Maria Maria	- To	77	CILLAN JCA	K Daniel	14.3116	
Note: - Many Miril	and to D		Dat Ast	WIK L	Visita	
approximate , 9	- Lange		7			:
				••••		
	· · · · · · · · · · · · · · · · · · ·	:	****	••		
	• •			•		
	## # · # · # · #		i .	••		
hive orthonice. Heng	• • •	•				+
1 Fuze tup	. ••• ••			•	• • •	
4 or HE				• :		-
VISITORS ON SITE: D. R.	l Altreath	CHANGES I	BOM DI ANG AN	D SPECIFICATION		/AI
Dide For + 1	hp+1 NTERO une F (H+S)	OTHER SPE	CIAL ORDERS A	ND IMPORTANT	DECISIONS.	
Dob Danin, Dia Slave Glassochum	one b (#43)	'				
State and						
SATHER CONDITIONS:		IMPORTAN	TELEPHONE C	ALLS:		
lear cool in Am			-			
Cloudy - wown in Par	•	1		•		
PERSONNEL ON SITE D			-4A			
	EEMPLE PO		LBA			

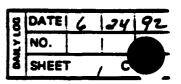
8	DATE	6	18	92
13	NO.			
Ž	SHEET			

PROJECT NAME TODALE A	em Depor	Nock	JAMA	PROJECT N	0. 508.01	
FIELD ACTIVITY SUBJECT:	LI INVESTIGA	442				
DESCRIPTION OF DAILY ACTIVE	TIES AND EVENTS		: :	:		
0630: departed Quarter	1. 10	. : •	···· · · · · ·			
Oleso: depend submer	م م م		— <u>— — — — — — — — — — — — — — — — </u>			
\$650 - animal hole in	er, Kearing &	amponen			/ - 4	
07MS - Conducted Tail	gate Sabety	May . d	apartie a	a lader	a tes Risa	بمعا
0905 - Pit contained o						
1995 - Pik corrlaines) Bumbaire	سو, بلیته	L Serra	مصيمه هـ ولا	er items,	
Workelon Bu	Mur mach	س طنا به	t Tightons a	- Gitting & mi	that a hydro	4
lish		······································	. 			
1130-1200 humb			: : : : : : : : : : : : : : : : : : :	<u> </u>		
0	d execution	.				
1330: Pit contined	L: Pout of a Fo	مد(دنه) ۲۲	letal Fray	No. Ordy	muec.	j
1420 - Delayal to bur	n assistion	_	•			
1500 · Resured De 9						
			Un Al			
1595 - Post Contained	Start, Butto	Alexan	C_{-}	1 74	4 2 000	- L
1780 - Caralala Colonia	ALC LANGE PLA		THE PARTY OF THE P	T_1241	•	
1780: Completed Claim	une tes p	. ar ess	, flatoniae.	Megano	ment for	
Silo Thulen						
1730 - complete for	r and i	i				
· • • • • • • • • • • • • • • • • • • •			• • • • •	-		
		•		· · ·		
				; ;		
Live ordnesse Located.	• • • •	•	•	: .		
F-:02. #E		•	•	•		
1- BUL -3	#					
1-BLU-3 Fuze				•		
2- 20MM				:		<u> </u>
VISITORS ON SITE: Deb Brain June Band (corresponded) + 2 State BPR		CHANGES OTHER SP	FROM PLANS A ECIAL ORDERS	ND SPECIFICA AND IMPORTA	TIONS, AND INT DECISIONS.	
WEATHER CONDITIONS: Cleans - Warm		MEORTA	IT, TELEPHONE	CALLS: Dia	mu (H+2) an	
DEDOCAME! ON SITE!						

THE

18	SHEET	•	/	OF	1
15	NO.		j	!	
8	BATE	6	1	31	93
_			1.50		

Live ordnasee Located. 2 lbs HE 1. 20 MM 1. Blu-3 Fuze 1- Ye 4 16. Thereing bomb (no fuze) VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATOTHER SPECIAL ORDERS AND IMPORTA	
l. 20 mm l- Blu-3 Fuze	·•)	
Live ordnesse Located. 2 165 RE - 20 MM	••	
Live ordinare Located.	••	
•		
	·	
		•
4:14 - Pit Contenied athin Burn 1500 : Started Cleaning Test 1645: Completed test Pit Cleaning deposited for office trais and work schedule. 1730 Completed operations	en to discuss fulliment is	site (Bailer.
3:10 P.7 Contained a burn 4:14-Pit Contained athin Burn	hayer in ground nothing	p e/se
100-1130 Lunch		
045 - Pit Contained FRAM, 90 MM	Lill. 1/2 416. Thereise bomb,	barding.
THUT I'VE CAME AND A PAGE AND TO	سيوامهم مساهلة فليكا	Oreq.
2810- Conducted Safet (tailgate) N	uto departed for fest P.L.	
19650 - departed trustens for 19650 - annived Job site, Loaded 19610 - Conducted Safet (wilgorth) W 1940 - Pit Contained Frag, Ash, F	Compress Serviced Bello	, awaiting Jan
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS 0630 - departed Guerters for 0650 - arrived Job site, Loaded 0810 - Conducted Safet (wilgoth) 1940 - fir Contains I France Ash. Fi	Compress Serviced Bello	, awaiting Janu



DECEMBER / /	PROJECT NO - A B A
FIELD ACTIVITY SUBJECT: FIELD INVIDESCRIPTION OF DAILY ACTIVITIES AND EV	POT NOOTH JAM PROJECT NO. 588.01
FIELD ACTIVITY SUBJECT: FIELD INU	Colopha
	· · · · · · · · · · · · · · · · · · ·
0630 - departed Quarters 1	fon Lub site
Meso- named deb site boo	ded Es minus uses informed by Paine
less well what only has	and he last of feld whom the hope and for Eine
Cassing The governe	ded Equipment. Was informed by Lawren. Not been locked Told them that we workly Beauty
MONG WASH WE LIEUE.	, Jo Timey Caro Lead 17.
Conducted Teligate Sala	by mig, depended for Test pil site.
0855 - Pitcontoned Frag.	we ordnance
1000 - Tit contained Trae.	po manne
In in Fig. 7 a constant	and broads
1200 - Pit continued Frag.	lot of Small heres of Explosive around hole
BID- Statemon disciple in	Fixing Line Cable that was cut by beck he
during a test Pit. Dig	A For RePair
Kee- Civil ad dia : 18	Four Line C. L. Charles Clause that D
was einisised and in the	Firing Live Cable Strated Cleaning Test Prost Strate.
1645 PLNISHED_CLEORING TE	ST Yits. Unloaded equipment. IN Sife
TRAILED . departed 311	e with seem eleaven Temilen to Fill
	rk at office traden.
1730 - campiere for day.	4 Pit lamplated.
· · · · · · · · · · · · · · · · · · ·	***************************************
and waved (Lite) Located.	
1 Bos of Fuze /	Vote: Backher alus ofentabe to ODEN Pit
3 BUL 26 Fuzes	Vote: Backhou plus ofention to open P.t.
	Person for 30 min.
	10500 For Co 11110.
1 02 maliente	•• ••
R-BLU-3 FUZES	
4 02 . HE	THE STATE OF THE S
VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
Deb Degin (MM)	
WEATHER CONDITIONS:	TORTANT TELEPHONE CALLS: up county Schooland
	Would Demob Tom on 3 Jul.
Cloudy-Willy-Hot Pal	
PERSONNEL ON SITE DICKMAN	ONEIL FIRMAN

	DATE 6	LET: 92
Š	NO.	
3	SHEET	(OF /

PROJECT NAME Too ele Denny Depart	North JAM PROJECT NO. 508.01
FIELD ACTIVITY SUBJECT: FIELD IN UESTION	trà a)
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:	
0630 -depended Questing For Office	ce Trailen To Pick upskam eleaver.
0710 - arrived Lab site, Loaded ex	raiderent
1730 - Conducted Tail Gate Safet,	119. deposted for Test Pir area. Hack Translan
0850 - Pit Contained FRAQ. No or	navana
	ue Ant Fuzes, 1 xm 54 Antilley Bonefor,
BUILT Cure livere that	were left From in complete during
epenation.	
· · · · · · · · · · · · · · · · · · ·), Range operation And Lunch . (Test it house
11:30 - hour win Tolom it of	mare test Pit. areas. Tom helping with Suprey
19:45 Translat with whater that	to die and dean water of A. Il. Lan
And Can of the water and Rolling	of Supervison and he oked dumping.
11430 - Stanted Cleaning test pit si	and belood with Alone in that De
areas. Staked out more	ey and halped with Cleaning test Ri
ILEDA Annoloted Alegania Total	8+ near Miles del age and it
lolo in maile and	1+ acces Unloader equipment in
1200 - 126 Cal Canada Maria	epartel des Office Tadites.
1780 - Notified Security to Lock	s Subma deat la sacre
1730 - at office trailer. distant	Discoulty
1730 - lampleto fon day. 2	PST COMPLLEY.
hive ordnance items.	
1- BLU 3 Fuze	•
1 Ku 54 dunston	··
16-Ant Fuzes in LAWS	
2 02 AE	
(-20 post	CHANGES SECONDIANE AND SECUSION TIONS AND
VISITORS ON SITE: Deb David JAM	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
•	
SATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
cloudy Warm AM	
cloudy women AM Cloudy writy Hot in AM	
Ciocad and A	
PERSONNEL ON SITE: DIEKALO ALLE OLL	zin + lam

8	DATE!	26	92
Ž	NO.		
š	SHEET	1	

PROJECT NAME Topele Agency Depot	North JAM PROJECT NO. 508.01
FIELD ACTIVITY SUBJECT: Field INVESTOR	
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:	
0630 - Deported Quertons for Job so	
osso- wenter soosia, posses of	MIG. departed for test Pit area. Surveyed.
195 - Conductor air gate sarry	Pol blich Many Blues Error ' W O//
	Pad With Many BLU-26 Feres in 18. Oll
appeared to be disposed o	The Fore Taul has a sub- I land
ors- Lit Conterne Brien Hader O	n top_ FRag - Tank boggie wheel Louge
No openouse	The Mkin with the characters of
Ato - 114 Concaines Danding Hotel	e IRON, MKID iquiten Change Relaptory. Anima
	st of Stuff No Live ordnance House
1236-1300 lunch.	in English of the Other
ISIS - OSB - A COUNTY OF THE STATE OF	endre. Freze riedue. No lin osdance
ISIS - assisted/escent-Jum To S	all of 1887 Pers
Wes Considered about the	trees for Next days operations
Tarilar docada Con O	Dits. Un Loaded Equipment is site. Prèc trailer.
Trans Carl Carlotte B. O.	The transport of the state of t
1730- at Quality Complete for	day. 4 test Pits Completed,
is a company of	- 1. 622 123 Single- 27.
• · · · · · · · · · · · · · · · · · · ·	•
• · · • · • • • · ·	••
	· · · · · · · · · · · · · · · · · · ·
Li conduance located	
l ozhe	•••• • • • • • • • • • • • • • • • • •
- - -	-
1.20mm 2 2 L4.3 Fuze	
VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
	A TITEL OF BUILD AND END MIT ON TANT DECISIONS.
MEATHER COMPANY.	PROGRAM TELEMONT CALLS
WEATHER CONDITIONS: Chouly - Coat HAM G WORM Light Rain	IMPORTANT TELEPHONE CALLS:
Cloudy warm PM	
Cloudy warm PM	
PERSONNEL ON SITE TO	

SHEET /

PROJECT NAME TOOGLE DAMY DEPORT NEAR 1884 PROJECT NO. 508.01 PROJECT NAME TOOGLE DAMY DEPORT NEAR 1884 PROJECT NO. 508.01 PROJECT NAME TOOGLE DAMY DEPORTS: DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: DESCRIPTION OF DAILY ACTIVITIES AND STREET PROJECT OF THE TOO OPERATIONS OF THE TOO OPERATIONS OF THE PROJECT OF THE TOO OPERATIONS OF THE PROJECT OF THE TOO OPERATIONS OF THE PROJECT OF THE PROJECT OF THE TOO OPERATIONS OF THE PROJECT O	PROJECT NAME Tooks Damy Depat A	ionth lass	PROJECT NO.	508.01
OBESO - DEPOSITE QUENCES FOR JOB SITE COSCO - DEPOSITE JOB SITE TRAILER, LODGED EQUIPMENT 67410 - CONDUCTIVO TEIL GALE SETAL, MTG, depanded For Test Pitagea. 9735 - Pit Contained atting. 1110 - Pit contained nothing. 1130 - 1209 Lenning. 1139 - Pit Contained Nothing. 1150 - STANLED CLORARING TEST Pet Sites For Next day operations. 1700 : Completed Cloraring Test Pet Sites For Next day operations. 1700 : Completed Cloraring Test Pit Sides, Unitoded equipment ion. 1705 : Notified Scenario, to Secure golds. 1705 : Notified Scenario, to Secure golds. 1705 : Notified Scenario, to Secure golds. 1706 : Completed 1706 : Completed 1707 : Completed 1708 : Completed 1708 : Completed 1709 : Complete	FIELD ACTIVITY SUBJECT: 5 11 1446 4 44	\		
9630 - depanded Quantons for bb site COSCO - armyled Job site Trailer, Looded equipment 67410 - Conductory Tailgate Safety Mtg. depanded for Test Pit area. 935 - Pit Condained athing. 11:10 - Pit contained nothing. 1335 - Pit Contained Nothing. 1335 - Pit Contained Nothing. 1530 - Standed Clearing Test Pet Sites for Next day operations. 1700 : Completed Clearing Test Pit Sides, Unitoded equipment ion Side Trailer Complete for day. If it's Completed. 1705 : Notified Scenario, to Secure gathe. 1705 : Notified Scenario, to Secure gathe. 1706 : Complete for day in the secure of the contained of fire the contained of the	DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:	<u> </u>		;
COSO - CREATED Job Site Tanican, Loaded Equipment 6740 - Condeward Tailquie Salaty Mag, dipanded for Test Pit area. 6740 - Pit Contained Lathing. 11.10 - Pit contained Lathing. 11.10 - Pit contained Mothing. 11.30 - (200 Munch) 1395 - Pit Contained Mothing. 1530 - Standed Clearing test Pit Sites Fore Next day operations 1500 - Congleted Clearing Test Pit Sites, Milododed equipment in Site Trailer Completing day. 1705: Abilities Security to Secure gates. 1706: Completing Completing day. 1706: Completing Completing day. 1706: Completing Completing day. 1706: Completing Completing day. 1706: Completing Completing day. 1707: Completing 1708: Abilities Security to Secure gates. 1708: Abilities Security to Secure gates. 1709: Abilities Security to Secure gates. 1709: Abilities Security to Secure gates. 1709: Abilities Security to Secure gates. 1709: Abilities Security to Secure gates. 1709: Abilities Security to Secure gates. 1709: Abilities Security to Secure gates. 1709: Abilities Security to Secure gates. 1709: Abilities Security to Secure gates. 1709: Completed Security to Secure gates. 1709: Completed Security to Secure gates. 1709: Completed Security to Secure gates. 1709: Completed Security to Secure gates. 1709: Completed Security to Secure gates. 1709: Completed Security to Secure gates. 1709: Completed Security to Secure gates. 1709: Completed Security to Secure gates. 1709: Completed Security to Secure gates. 1709: Completed Security to Secure gates. 1709: Completed Security to Secure gates. 1709: Completed Security to Secure gates. 1709: Completed Security to Secure gates. 1709: Completed Security to Secure gates. 1709: Completed Security to Secure gates. 1709: Completed Security to Secure gates. 1709: Completed Security to Secure gates. 1700: Completed Security to Secure gates. 1700: Completed Security to Secure gates. 1700: Completed Security to Secure gates. 1700: Completed Security to Secure gates. 1700: Completed Security to Secure gates. 1700: Completed Security to Secure gates. 1700: Completed Secu		• • • • • • •		
130-1200 Lunch 1355 Pit Contained nothing then escaled his Survey test pits. 1530- Standed Clearing test Pit Sites for Next day operations. 1700- Complated Clearing test Pit Sites, withouted equipment in Site virolen. 1705: Notified Security to Secure gots. 1705: Notified Security to Secure gots. 1706: Givenual upCommun selectule which Dane shout and but in of Builbacktan Clean Clear with Dane shout and but in of Builbacktan Clean Color wifeer Clearance only on abb way for dail my due to research and in Tribab first also under when the security decemped in Tribab first area. Unless we had another decompast in Tribab first area. Unless we had something different. Live ondowner becaled 1 4 Fuze 1 62 He 1 2 DO MM VISITORS ON SITE: Hade places souther and specifications and other should be decined and supportant decemps. CHANGES FROM PLANE AND EMPCRITIONS. AND OTHER SPECIAL ONDERS AND IMPORTANT DECEMPNS. CHANGES FROM PLANE AND EMPCRIFICATIONS. AND OTHER SPECIAL ONDERS AND IMPORTANT DECEMPNS. LATHER CONDITIONS: WEORTANT TELEPHONE CALLS:	0630: departed whenters for 400 800	1	: •	
130-1200 Lunch 1355 Pit Contained nothing then escaled his Survey test pits. 1530- Standed Clearing test Pit Sites for Next day operations. 1700- Complated Clearing test Pit Sites, withouted equipment in Site virolen. 1705: Notified Security to Secure gots. 1705: Notified Security to Secure gots. 1706: Givenual upCommun selectule which Dane shout and but in of Builbacktan Clean Clear with Dane shout and but in of Builbacktan Clean Color wifeer Clearance only on abb way for dail my due to research and in Tribab first also under when the security decemped in Tribab first area. Unless we had another decompast in Tribab first area. Unless we had something different. Live ondowner becaled 1 4 Fuze 1 62 He 1 2 DO MM VISITORS ON SITE: Hade places souther and specifications and other should be decined and supportant decemps. CHANGES FROM PLANE AND EMPCRITIONS. AND OTHER SPECIAL ONDERS AND IMPORTANT DECEMPNS. CHANGES FROM PLANE AND EMPCRIFICATIONS. AND OTHER SPECIAL ONDERS AND IMPORTANT DECEMPNS. LATHER CONDITIONS: WEORTANT TELEPHONE CALLS:	Obso - armivel Job site I railen, La	aged charburn		
130-1200 Lunch 1355 Pit Contained nothing then escaled his Survey test pits. 1530- Standed Clearing test Pit Sites for Next day operations. 1700- Complated Clearing test Pit Sites, withouted equipment in Site virolen. 1705: Notified Security to Secure gots. 1705: Notified Security to Secure gots. 1706: Givenual upCommun selectule which Dane shout and but in of Builbacktan Clean Clear with Dane shout and but in of Builbacktan Clean Color wifeer Clearance only on abb way for dail my due to research and in Tribab first also under when the security decemped in Tribab first area. Unless we had another decompast in Tribab first area. Unless we had something different. Live ondowner becaled 1 4 Fuze 1 62 He 1 2 DO MM VISITORS ON SITE: Hade places souther and specifications and other should be decined and supportant decemps. CHANGES FROM PLANE AND EMPCRITIONS. AND OTHER SPECIAL ONDERS AND IMPORTANT DECEMPNS. CHANGES FROM PLANE AND EMPCRIFICATIONS. AND OTHER SPECIAL ONDERS AND IMPORTANT DECEMPNS. LATHER CONDITIONS: WEORTANT TELEPHONE CALLS:	6740 - Conducted Tailque Safety	Mig , supersted to	n Est Pit	ORMA.
130-1200 Lunch 1355 Pit Contained nothing 1530- Standed Clearing test Pit Sites for Next day operations 1500- Complained Clearing test Pit Sites, whooded equipment in 510 Trailer 1705: Notified Security to Secure gots 30 - aperations Complete for day. If it's Complained Note: discussed upcommung selectual vision, Dame about and buttor in of Buches/standlemen. Olso surface Clearance only on abb way for daill my due to resease and in Trail first area. Unless we had another decompass in Trail first Live ondowner becaled 1 Ut Fuze 1 62 He 1 20 MM VISITORS ON SITE: Hade procis is surface OHANGES FROM PLANE AND EPECIFICATIONS, AND OTHER SPECIAL ONDERS AND IMPORTANT DECERORS. OHANGES FROM PLANE AND IMPORTANT DECERORS. OHANGES Should James LATHER CONDITIONS: WEORTANT TELEPHONE CALLS:	0935 - Pix Contained nothing			
1395 - Pit Contained nothing then escaled him Sucrey test Pits 1530 - Stranded Clearing test Pit Sites Fore Next day operations 1700 - Completed Clearing test Pit Sites, unloaded equipment in Site Tradien 1705 - Notified Security to Secure golds. 30 - apprehence Complete for day. If it's Completed Note: discussed up Communical selectular vision Danie about and little in of Bushes Standlenew class surface Clearance only he other than for dill my due to release anomal of frag he other. He paid to spieled another decompast in Tribal first Assa. Unless we have something different Live ondonered located 1 Vt Fuze 1 62 He 2. 20 MM Visitoris On site: OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. Deb Denis Jame Dave Shack Jam. EATHER CONDITIONS: Heady Cleak, Wash Ann 11 (1 Hoth Pre)			• • • • • • • • • • • • • • • • • • • •	
1530 - Stranded Cleaning test Pit Sites For Next day operations 1700 - Completed cleaning test Pit Sites, Utilonded equipment in 1705 - Notified Scenning to Secure golds. 1706 - Apostonic Completing of day. 4 Pits Completed. 1706 - Apostonic Completing of day. 4 Pits Completed. 1706 - Apostonic Completing of day. 4 Pits Completed. 1706 - Apostonic Completing of day. 4 Pits Completed. 1706 - Apostonic Completing of day. 4 Pits Completed. 1706 - Apostonic Completing of day. 4 Pits Completed. 1706 - Apostonic Completing of day. 4 Pits Completed. 1706 - Apostonic Completing of day. 4 Pits Completed. 1707 - Apostonic Completing of day. 4 Pits Completed. 1708 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 17		· · · · · · · · · · · · · · · · · · ·		
1530 - Stranded Cleaning test Pit Sites For Next day operations 1700 - Completed cleaning test Pit Sites, Utilonded equipment in 1705 - Notified Scenning to Secure golds. 1706 - Apostonic Completing of day. 4 Pits Completed. 1706 - Apostonic Completing of day. 4 Pits Completed. 1706 - Apostonic Completing of day. 4 Pits Completed. 1706 - Apostonic Completing of day. 4 Pits Completed. 1706 - Apostonic Completing of day. 4 Pits Completed. 1706 - Apostonic Completing of day. 4 Pits Completed. 1706 - Apostonic Completing of day. 4 Pits Completed. 1706 - Apostonic Completing of day. 4 Pits Completed. 1707 - Apostonic Completing of day. 4 Pits Completed. 1708 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 4 Pits Completed. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 1709 - Apostonic Completing of day. 17	1345 - Pit Contained nothing			
1700 - Completed Clearing Test Pit Sites Love Rest day operations 1700 - Completed Clearing Test Pit Sites, United and present in Site Translan 1705 - Abilitied Scenning To Secure goth 300 - appetitions Completing a declude unish Dame about and inter- in of Bulkner Standlones. Olso surface Clearance only on although for chill him due to Wellman on and in Tribb Pix Orea, unless we have something defected 1 Ut Fuze 1 62 He 1 20 MM CHANGES FROM PLANS AND SPECIFICATIONS. AND THERE SPECIAL ORDERS AND IMPORTANT DECISIONS. TATHER CONDITIONS: WEPORTANT TELEPHONE CALLS:	1515- PX Contained Nothing th	en reseasted. Jun Di	lavey tes	t Pits
1705: Abtilied Society to Secure gotes 30 - appretions Completisfor day. 4 lits Completed Note: discussed in Communication day. 4 lits Completed Note: discussed in Communication day. 4 lits Completed Note: discussed in Communication day. 4 lits Completed Note: discussed in Communication day. 4 lits and and for discussion and and frage he of the said to guild another day pad in Tribal pix Outs on line use hear something liferent Live on consiste to caled 1 of Fuze 1 62 He 2 20 MM CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. TATHER CONDITIONS: Plants of the pix INFORTANT TELEPHONE CALLS:	1530 - Stanled Cleaning test P	it Sites for 1	vext day	operations
1705: Abtilied Society to Secure gotes 30 - appretions Completisfor day. 4 lits Completed Note: discussed in Communication day. 4 lits Completed Note: discussed in Communication day. 4 lits Completed Note: discussed in Communication day. 4 lits Completed Note: discussed in Communication day. 4 lits and and for discussion and and frage he of the said to guild another day pad in Tribal pix Outs on line use hear something liferent Live on consiste to caled 1 of Fuze 1 62 He 2 20 MM CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. TATHER CONDITIONS: Plants of the pix INFORTANT TELEPHONE CALLS:	1700 - Completed cleaning Test P	+ Sides unload	ed eaus b	nent in _
105: Abilied Security to Secure gotes 30 - aperations Completis for day. 4 lists Completed Note: discussed up Communical Standard. Dame when and listen in of Bushese Standbones. Olso surfice Clearance only on a lith way for dail my due to Wisherson and in Tribah pix ohid. He said to Build another decompad in Tribah pix Live onchance located 1 Ut Fuze 1 62 He 1 10 Hot Pax CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECENORS. Date Shack Jame TATHER CONDITIONS: These on Difference of the pix of t	Sile Trailer		ν	
Note: decused up Comming addedule which Danie shout and live in of Buches / Familiane. Olso surface Clearance only on a lett way for dield nin due to Williams and in Tribal first area. Unless we have something decompass in Tribal first area. Unless we have something lightent. Live ondowned beated 1 VF Fuze 1 62 He 2. 20 MM VISITORS ON SITE: Hard books without Decisions. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. TATHER CONDITIONS: WEPORTANT TELEPHONE CALLS:		cooky.	:	
Note: descused up Commiss selectule which Dame shoul and liters in of Buckhes/Stan leaner. Oilso surface Clearance only on path way for dell my due to Wissesses amount of frag. he ohed. He said to shield another decon pad in Trach pix area. Unless we have something liferent. Live ontowice located 1 Ut Fuze 1 82 HE 2. 20 MM VISITORS ON SITE: HARRY BOOKS SERVICES Day Devin John Dave Shock John TATHER CONDITIONS: HEATHY Clarky. NAGAL AND 11 (1 Hot Pu.	30 - appation Completicales	des. 4 Pits	Comple	ted
in of Buckhee/Stanlleane. Old surface Clearance only on atthe way for dail my due to Welcarrows amount of frag. he ohid. He said to suiled another decon pad in Track pix. Alle. Unless we have something liferent. Live onchance Located 1 Ut Fuze 1 82 HE 2. 20 MM VISITORS ON SITE: Have prodis withous Date Shock June Tather conditions: That per fix. IMPORTANT TELEPHONE CALLE:	- American authority -		:	
in of Buckhoe Stanllone. Old surface Clearance only on atthe way for dail my due to welcome and of frage he ohed. He said to spill another decompase in Track pix. Alle. Unless we have something liferent. Live onchance Located 1 Ut Fuze 1 82 HE 2. 20 MM VISITORS ON SITE: Have prodis without Other special orders and important decisions. Date Dean June Tather conditions: Have Cloudy, when Ann 11 (1 Hot Pa.				-
in of Buckhoe Stanllone. Old surface Clearance only on atthe way for dail my due to welcome and of frage he ohed. He said to spill another decompase in Track pix. Alle. Unless we have something liferent. Live onchance Located 1 Ut Fuze 1 82 HE 2. 20 MM VISITORS ON SITE: Have prodis without Other special orders and important decisions. Date Dean June Tather conditions: Have Cloudy, when Ann 11 (1 Hot Pa.	Note: diames of a comment		المناه	and live
Live onclosure Localed 1 Uf: Fuze 1 62 He 2. 20 MM VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. Daly Denin Jiman Dave Shark Jima TATHER CONDITIONS: Hashy Cloudy, Warm And II () Hot Pa.	And has the	مرامایه ممانی	COACA	And a
Live onclosure Localed 1 Uf: Fuze 1 62 He 2. 20 MM VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. Daly Denin Jiman Dave Shark Jima TATHER CONDITIONS: Hashy Cloudy, Warm And II () Hot Pa.	and the design of	The white sales	i Comment	of from he
Live onclosure Localed 1 Uf: Fuze 1 62 He 2. 20 MM VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. Daly Denin Jiman Dave Shark Jima TATHER CONDITIONS: Hashy Cloudy, Warm And II () Hot Pa.	all the state was	me. to decemp	o G	7 1 100 4
Live onclosure Localed 1 Uf: Fuze 1 62 He 2. 20 MM VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. Daly Denin Jiman Dave Shark Jima TATHER CONDITIONS: Hashy Cloudy, Warm And II () Hot Pa.	and we have a getter of		wa m.	rain pur
Live onclosure Localed 1 Uf: Fuze 1 62 He 2. 20 MM VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. Daly Denin Jiman Dave Shark Jima TATHER CONDITIONS: Hashy Cloudy, Warm And II () Hot Pa.	and where we near	someting sign	int .	
1 UT: FUZE 1 B2 HE 2. 20 MM VISITORS ON SITE: CHANGES FROM PLANE AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. THE PROPERTY OF THE SPECIAL ORDERS AND IMPORTANT DECISIONS. TATHER CONDITIONS: THANK CLOUNT WARM AM II () HOT PM.			•	. •
1 62 HE 2. 20 M.M. VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. Deb Denin Jimm Dave Shark Jim. TATHER CONDITIONS: Health Cloudy, WARM AM II (1) HOT PM.	Live onthouse Located	•		
VISITORS ON SITE: HARAL BOOKS WITHING Deb Derin Jimm TATHER CONDITIONS: 11 (1 Hot Par.) CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. SATHER CONDITIONS: WIPORTANT TELEPHONE CALLS:	1 vt. Fuze			
VISITORS ON SITE: HARRY BOOKS WHITE Deb Derin Jimm DAVE Shock Jimm *ATHER CONDITIONS: HEALY Cloudy. When Am II (I Hot Pm. '	1 62 42			
HARRY BOOKS WHEN DECISIONS. Deb Derin Jmm Dave Shark Jmm. TATHER CONDITIONS: HEALLY Cloudy. WARN AM II () HOT PM.				
Dave Shock June TATHER CONDITIONS: Phash, Cloudy, where And II (1 Hot Pu. "		CHANGES FROM PLANS AN OTHER SPECIAL ORDERS A	D SPECIFICATION OF THE PROPERTY OF THE PROPERT	ins, and Decisions.
TATHER CONDITIONS: WHORTANT TELEPHONE CALLS: 11 (1 HOT PM.				
TATHER CONDITIONS: WHORTANT TELEPHONE CALLS: 11 (1 HOT PM.				
thatly Cloudy. When And		MARCHANT TRI EDINAM A	A11 &.	
11 (1 Hot Par .		MITORIANI I ELEPTIONE C	need:	
	(, 45,			
	and a second sec			

8	DATE	4	1,6	38'	92
E	NO.				
ğ	SHEET		1	2	

PROJECT NAME TOOK	e Damy Dens	+ Kaeth	JMM	PROJECT NO	508.01
FIELD ACTIVITY SUBJECT:	Field Harrely	Lean			
FIELD ACTIVITY SUBJECT: DESCRIPTION OF DAILY AC	TIVITIES AND EVENT	S:	•		
0630 Departed Or	usalers Ga. Lo	6 Sile	. :		
XXXX Danued Jol	b sile Trailer	, wooded &	gerpmont.	entruck C	owleded Secure
TO Open go	He to area.		0	·	
745 - Conducted	He to area I sail gate Sa	Sorty Bleed	m. depo	reled for	test Pil agen
930 - P. Coulain	ed Dothing			• • • • • • • • • • • • • • • • • • • •	
110 - Piz confair	ved Nothwip.			·	
130:000: unch.				· · · · · · · · · · · · · · · · · · ·	
400 - Pit Contan		· · · · · · · · · · · · · · · · · · ·			
200 - 44 Contai					
1520 - Short ed A	nanking to cont	ions of	yest Pits	Then S	tarted
	the test fit				
715 - Coupleted	Connection of the	a Marke	re rest	D'A Green	s. unoes
- Equipment	W Site Son	liten dela	purch ha	ri office	TRULAN
720 - Mossified	Jeenstey It	gen ge	the ther	ON TO	DITTE
1800 - aprod-	on Times	t For La	4	المعتد عمدم	gue
• • •	•• • ••••• • • • • • • • • • • • • • •		• • • • :	• • •	
•••••	• • • •	• •	• • • • • •	•	
•		•	• • • •		
•	:		. , 	: .	•••
	• •				
•	•	:			
Lie ordnance	•	•		•	
1-90:mm T91	·				141
risitors on site; Lagou Woods (USA:1	Hama			ND SPECIFICAT	
Herrid - aggin (and)	 				
					-
MEATHER CONDITIONS!	<u> </u>	IMPORTANT	TELEPHONE	CALLS:	
AGENT LIGHT GENERAL LIGHTS		5			
Ger-Warm Am.					

	EATE		Ħ
Ä	NO.		
3	SHEET	/ OF	1

eld activity subject: Escription of Daily A		wooder		JMM		CT NO. 57	:
	•		1		,		
630 Departed G	rummers have i	eo Sate	1	: خے ک			6
650 - cancion de 750 - Constructed	OF SILE THAT	Len, i	roode	a con	PMCNI		· · · · · · · · · · · · · · · · · · ·
750 - Conducted	Hail gate Bah	ely note	, dep	ented:	tor tes	T P. s	Orea
1930 - Vit Contoin	ied Kothing.					•	
030 - 1130 Delay	Burn aperat	in 14	unch				
130 - FIT CONFI	not Nolling.		· · · · · · · · · · · · · · · · · · ·		:		
OS - PH Coute		• :		:			
40- Pit Contain	<i>.</i>		•	* · ·		:	:
450 - Stanled (Clearing Test	- Px -	Marte C	Cor N	est de	. O Dobe	trong .
645- ebuplete	& clean in	Vest 2	N OF	leas.	who !	id ac.	mome t
in Cir. I	nation; defe	المسلم	50 0 v	200:	Yeu il-	2. 7	Fire countie
100 = ALLO 6 -	equally and	11.14 A		LORAL			, , ₍₁ 010 1010) - 1220 (100 Pr
700 - wollefied 8	Chair was	و ببیر	F.A.	المحار	1. 4-	, 	
710- annual c	THE THINKS	سر طرر	CEES:	TIL Ed	at		
130+ Complete	o openotions	_ iron_(ay		M.T. Pi	e. Som	presed
		· · · · · · · · · · · · · · · · · · ·			• • • • • • • • • • • • • • • • • • •	B12. mpr 10 511	-
		Orogan deres		- +		Bellin griberille e e.	·····
. : . • • • • •		•				•	
	·			:	•		
				•			
	•		•	•	, .	-	:
Live orderance	b located	· · ·		••	•		•
· જ :HE		ė	:	••	:		-
- Fuze Cup		•	ŧ.				
•		•	•				
· 20 MM - Rin-2 Cuza		•					***
- Blu-à fuz e Isitors on site:					AND SPECIA		
					RS AND IMPO		
		1					
ATHER COMPLETIONS			HATE!	TELEPHON	E CALLE.	•	
PATHER CONDITIONS:	The April Doll	التنا	w tom	سعوانه.	ad him	about 1	Tuaning be
DAME ARMS	7	1 •	,				Annual tank A.

8	DATE	6	30	92
2	NO.			
Z	SHEET	1	٠.	

PROJECT NAME TORALE Demy Deport	North Jmn	PROJECT NO. 50 8, 0/
FIELD ACTIVITY SUBJECT: Field IMMERS	2441	
DESCRIPTION OF DAILY ACTIVITIES AND EVENT		
0630 Departed Quarters FOR J	ob sie.	
1660 ARRIVED Job Site Trailer	Looded equipment o	BOD gale hat healest.
0800 - Conducted Pail pale Safety 1	uto-depended for the	st put site
1095- P'A Conteined Bruch R	esidue. No only	ME 8
1100-130 havel.		
1320 - Pit coutoined Nothing S	ame Fiers	
1445 - Piterbained Mother . S.	me File	
Iria Strint of Manage They	alla the servers	o
120 - Completed Clearing test	à les les luctodad.	Concoment in Site
Tanilon, depended Job S.	ite Con office TRAiler	D
1735 - Notified Security to &	ener gete at 0000	he asked me if
_ know what key hocked	i+.	
1745: Denved office trailer	L. No Messages de Fa	x c
1800 - Completed apendions for	a day. 4 Yest	Dits Completed
• • • • •		
Live ordunice Louded		
3 16 HE 1-25 16 Frag A	Soub.	
7- 20 mm		
2-BUL-3 Fuses	:	* Pa . appres as
1 Fuze Boster Cup	· .	
VISITORS ON SITE: Hasse Woods	CHANGES FROM PLANS AN	D SPECIFICATIONS, AND MO IMPORTANT DECISIONS.
LARRY Fisher + 3 State People		
		,
WEATHER CONDITIONS:	MIPORTANT TELEPHONE C	MIS:
Course Rains Am		
Cloudy - Cool Par		
1		
PERSONNEL ON SITE: The same		

				_
- 1	 	 	DAILY	
- 1				

1		EET	<u>i</u> -	- .	
12	NO	. 1	1		Section 1
	94		71	1 1º	12

730 - Openations G	eomplete G	CHANGES FR	OM PLANS AND SPE AL ORDERS AND IM		Jue
130 - Openations G	eomplete G	n day	પ જ્યુંક	Completed	
730 - Openations G	eomplete G	n day	પ જ્યુંક	Completed	
		in day	પ જ્યુંક	Completed	
		in day	५ म्लंड	Completed	•
		in day	५ मेलंड	Completed	• • • • • • • • • • • • • • • • • • • •
		n day	4 Pits	Completed	• • • • •
Tommenos	serving.				
100 - Unhook Stea	Shadub	itisted of	217-12 6 110015	THE WAS CHEST.	6U
30 - Filled SteA	m Cleaner	TRAILER			
ion - Molified A	umo to 50	cupe obot	9eter		
Site their les	a hasked w	a to Steam	Cleanes A	Recilly	auk.
Honornou.	-				
130-Staited March	Ling Locate	of Jes	t pik to be	e Reopene	<u>d</u>
120 - Pit Containe	d Frag, ba	nding wood	. No and	vante.	- -
146 = 1115 Lunch 300 - Pit Contains	d Frag	RO ORDNON	ee.		
. 11 / - 11 15					
185 - Conducted : 185 - Pit Contain per 185 - Pit Contained	ragionly S	One Francisco	ORTHONE	e e e e e e e e e e e e e e e e e e e	· - · · · ·
785 - Conducted :	tail gate. Safa	by Mig. Ocpo	valed fon tes	t P.t. Gaca	
105 -annuel Jobsin	te hoaded d	Zuipmont .:	OBOD gale	Not Lackad	/ ·· · ···· · ·
and then to	Job site.		;		
630-Deposted au	vanters for.	Security to	Obtain New	Estay Bas	40
ELD ACTIVITY SUBJECT: ESCRIPTION OF DAILY ACTIV	VITIES AND EVENT	18:			

8	DATE	7	2	9
5	NO.			5
3	SHEET			,

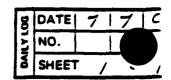
PROJECT NAME Took Damy Depot A	Vanth Jamy PROJECT NO. 608,01
FIELD ACTIVITY SUBJECT: Field INVESTIGATE	10AL
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:	
doza-Donald Bunchers For	Office Trailer to prikup stern
cleaning Texten and FAX	is machine
A defect Constitution of	in adams to the second
0700 - Butasted Security to Obt	WILL ENHARY TO ACCEST 12000.
0.725 - annuel Job Site Trailer	. Positioned Sterm Cleanies. Loaded
equipment.	
0745 - Conducted tail gate Safe	4 Mtg. departed for test pit site.
0930 - Completed Reopening of Pix	Con Sundes, also Filming CREW
Filmed Test Did Operation	in tit contained alox of Metal
1045 - COM Note & Reposition	Pit. Pir contained hundreds of ME;
Euzes, No Live ond	Mane e
IIIA . 1220 LEIAICH	
lane Di on dained suche come	Lene & miss. No Live ondware -
Respond Con Samples.	HERE . LINE NO FINE DICHARIA E.E.
THE COLUMN TO TH	1 A S
1400: Reopule P.H. The World	mich Deun, banding, thyping Bando. Killow
-90 MM Proj. Location. To	of ible. Live He
1405. Started Team Cleaning B	
1445 - abriphile Cleaning Bec	how, Unbadedegapment in Site
Tonilen, Public up Wate to	who trailer to empty land him in
	Complete in Demo ous to sence goles
1545 - Deemo Water from tack	Trailer, Seleved Backput Fronty Baly He
1630 - Dragged tom offat mot	Cen billing on Steam Cleaner. M. 4 Pits Reopened.
Water tank, And Trans	Car billian an Sham classes
1730 - Completed of Encutions Co	w day. U Pits Re noward
	The state of the s
1-90 MM HE 1-BLU-3 Fuze	•
VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND
Deb Danie + 5 (Film Crew)	OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
too time to dies simely	•
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
Cloudy - cool AM	
Cloudy - Weren Bu.	
DEDROMNEL ON RITE-TO	

TE

8	DATE	7	1	3	1	9	Z
15	NO.		:		į		•
3	SHEET		,	C)F	1	

HOJECT	NAME TOOK	HRM	Denot	North	JM	M	OJECT NO.	08.01
	TIVITY SUBJECT:		12 vest					
DESCRIPT	ION OF DAILY ACT	IVITIES AND	EVENTS:					
0945-	Picked up	Tom at	Quarte	es to	TRAN	spont	him to	Hosport.
145-	DEMOB. Complete of	n day	Tomo	NEILL	Comp	hefed	DEMOB	
		/					•	
	•							•••
								**

			***			••		
	• ••							
•					•			
			•••		•.	.=		
				*** ***	•-			
-	***		• .		-			
٠			. •					
								*** - ***
					_			
					٠,	•		
VISITORS	ON SITE:	- 					PECIFICATIONS IMPORTANT D	
/EATHER	CONDITIONS:			IMPORTAN	T TELEPH	ONE CAL	. S:	



PROJECT NAME TOOPLE ARMY Dec	of North JMM PROJECT NO. 508, 01
FIELD ACTIVITY SUBJECT: Field I AWect wal	him / Geo Ohus is C
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:	THE PROPERTY OF THE PARTY OF TH
1000 met with Dick For. Will 10 10 departed for Job site	Office Trainer awaiting JMM + Dick Mito Bich Fox. (No one than) then went ted up so man at Bidg 1320 (Located ponted to Reage. be Excepting then IN Teach Bern area. Track burn site, unloaded Equipmen: physical People to Office Trained. Show
they the Doot	
1730 operations thrufor day.	
	· · · · · · · · · · · · · · · · · · ·
Note: Thereon 5, to age holded will will be physics (\$11-31 + Mag) and then Clearing (Surface)	The area 50 they can conduct 9 copysic
	· · · · · · · · · · · · · · · · · · ·
	·
Live ordunes Located	.•
1-90mm M 383	
1-20 MM	
VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
Dave Shauk	
WEATHER CONDITIONS: Cloudy - Warm	IMPORTANT TELEPHONE CALLS:
PERSONNELON SITE NI.	

	Sales Services		
3	SHEET		7

DESCRIPTION OF DAIL' 1630 Departed 1655 a revived 1735 Conduct	Quanton Sile trail	ND EVENT S Gan Loca	1-d e 10b	Site Buck	Traple ment.		Con	Work	can	eu
Stanley h	ecative the	wichs the f	with Rest o	Geoph F. Hhe	Uffera	368 6				
departed at 1715 Changed at	ben offi	ce tea	ilen.		U		3,40	1. 427.7. 4		
730 Compiele							d			- i
		-	-		• :					
					•					
			•			• • •	· · ·			-
ic padamer to	ested.	•	•			· :		e 'e ame sa		
OZ BOLLISHIN	'or		•	•						
M-15 min A1 ISITORS ON SITE: helt fox	· · · · · · · · · · · · · · · · · · ·		CHAI	NGES FR	OM PLANS AL ORDER	AND SPEC S AND IM	IFICATION ORTAN	OMS, AM T DECISI	D ONS.	
EATHER CONDITIONS:			MPG	RTANT	TELEPHON	E CALLS:		•		

8	DATE	1	9	9.
E	NO.			5
ā	SHEET		1:	

Note: Num	menous moke ,(DUCKE DUCKE	Cound	duni	ric G	so bythe	ics. a	ll Ro	unds	we	e c	40
	<i>,</i> , , , , , , , , , , , , , , , , , ,	•		-					. .			
			•			•		:			· · ·	:
		• • • •			: :				• .	: _	++	
,								:	•		<u> </u>	<u> </u>
,		1			•		•			•		
		·	·		:							
					•							
		1			•			:	·			
60 Da (04/6	No frank	: :			•				·			
ue cadnane	li Local	ed.			•			:				
	·	:			•							-
					•			:	·			-
					•							
					:					. =-		
		1			: '		•			•		
,					: '							
					. :			:			<u> </u>	<u>:</u>
		• • •			: • ;		•		• .	: -	++	-
•			•			•	•	:				:
•		; *	-; ·		:	_	•				:	<u>:</u>
	•	•			•			:			- -	••
ව	ا ، ر عباسیم	were.	· +onno	. uwu	المن	so hulda	ت. <i>ب</i>	z! /ec)	MVQ-			17
5 1	moke , . (مناحعد	Cound	dun	NG G	eo phas	rcs. a	ll.Ro	unds	we	2 6	40
NOTE! Nu	menous	75 mm	Suckey	90 M	1 2m	uce, 10	5 MM	5 me	Ke:	2.5	Keeke	-
		• •	ا حفد حد	Δ	··	; · · · ;	 		<u>.</u> 	استر 🛪	b 1	4
	:		: :			: :	•		_ <u>.</u>			:
·			·				•				; ;	
30- Comp	pleted	openo	tions:	or d	by						 	
50 - Comple	epante	d Fon	office	6, A50	LL	: HOR	MESS	yer	Chi	etcià		
BO - COMPI	Hed: Ge	dividence	S HORE CX	29. W) Moior	4	mapi	new	/~		A A	
30 - Condin	Pareti (Se	a bindarc	<u>.</u>	. ,					100 10 1		7	
	•			· · ••	•	•	•					
200:1230 La			•						.		<u> </u>	<u> </u>
. de pos	ed of i	٩ٍ.در				• •	- :			··· ·		
Recove	ened ye	2 IEKOWI	1 and say	GESMON	is entire	esposa.	i ince	,	THE		1000	<u> </u>

į.	4	3	100		
ă.		£ .		ŧ	t
ý	3, 3		7	(8)	1

1	SHEET	,	OF	7
Z	NO.	•		1
1	CATE	7	10	97

ELD ACTIVITY SUBJECTION OF DAIL	LY ACTIVITIES AND EVE	•		
1630 departe	a cuanters for	office Trailer	. confacted (H160
7710- diparted	Proceed incentra	uler	1	T
7730 · Charles	. John the trailer	Cy Mig. oxl	d chaibmen	r
740 - Conduct	ted tail.gate.Sa	leg Mig, ord	eparted For u	ORK ORED
800 - STEUTI	Geophysics Sunvey	1) I waith Ligher ons	site Q120,	
145-1215 Lunch) () () () () () () () () () (
• • • • •	win Geophis	ics IN 1000 Teres	n pir ce pea.	
•	ed with Grephy:	_		
	FRAQ OF C Acc			
Li Li C	d Canal	or day, undbad	ed equipment	· cit
	and and the first	Office Too	- you when	- 700 - 700
		Office Trailer		
	d office Tru			·- - -
isa - Obeira	ttions complet	e rose Day.		·-
			· · · · · · · · · · · · · · · · · · ·	
		. 	* * * * * * * * * * * * * * * * * * *	
• • • • • • • • • • • • • • • • • • • •	<u> </u>		· · · · · · · · · · · · · · · · · · ·	
: .				
•. • •	•		·	
•	• • • • 	· · · · · · · · · · · · · · · · · · ·		
	• · · · · · ·	•		
		•	• •	
		•	•	
•		•	• •	
			·	
ive ORDiane	c ho coted.		•	• • • • • • • • • • • • • • • • • • •
- DL HE.		CHANGES FROM BY	ANS AND SPECIFICATIO	MS AND
SITORS ON SITE:	•	OTHER SPECIAL ORI	DERS AND IMPORTANT	DECISIONS.
an 4 Rob Juni	L			
	12.	IMPORTANT TELEPH	IONE CALLS:	
EATHER COMPITION	/**		· •	
EATHER CONDITION	ude : Den 803 (hil)	/		
EATHER CONDITION lear to Poully Cla	udy: Now 505 (hit)			

8	DATE	1	11	9:
1	NO.			
3	SHEET	j	0.	

ROJECT NAME IELD ACTIVITY	Tonele	Acmy	Depot	Λie	meth		m	n	PRO	DJECT	NO.	50	3.	Oİ	
IELD ACTIVITY	SUBJECT:	Cook	YEICS		-							- :		_	
ESCRIPTION OF	F DAILY AC	TIVITIES	AND EVEN	112:	00.							:	; ••••	<u> </u>	
فعد روم	arted	Guari	lers for	r o	Frice	TR	pil	cn	has	/ Seeu	mily:	u ja	724_	gad	حح
705 - depa	akd of	fice to	ea:1ler	FUR	Sik	tp.	sile	n.	:		:	i	. ـ ـ ـ ـ ـ ـ	<u>.</u>	
130 - UNC												:	!	<u> </u>	
740- Con	declad +	wil and	L SAICH	L 11	e tini		e001	escol	Bi	رس ع	rk	S.,	بور	•	
	SHARTE				, ,	, , -			,	•					
145-1215 L	,	. 4. 50			•	•	•	•		••		•			
· ·	_	 Abrici			•	•				••		•		- :	!
1.15: Bad				C	 الم	• •	20	3,7	 es	Pos	alo.	4	14	da	6
620 - Com	queres.	GEOPH	Haicz	120 K	Jay								•		_
Us	loaded		nbws		/N.S	150	TIL	L.C.	<u>د</u> .^	te o	25		100	<u>: </u>	<u> </u>
	ffice to					inser	4 : W)e .W	enc		<i>વ્યા</i>	le t	-	<u> </u>	
650. Ce						ļ . .			-	· .			-	<u> </u>	
730 -: Co	mplete	d O k	erahi	وتناه	Can	day	•	· .					- :		: (
			:	•		<i>'</i>	i	· ;	•	· • · • •		: -		┿	
			·		;	; ; •=•		. .• .	-						<u> </u>
Note:	90 mm	HE:	76 mm	HE,	75	ALM	HE	, 103	5 1	Mil	.	2	عين	<u>e</u> fi	les
	Go mar Greene	terect.	auc	emp	ty .				:						
:	•	:		•		:		:				:			!
		•							•				.:		!
			_		•					•					•
•		. •			•	•		•		. • • ·				· ••	
•		•								•		• •			!
		•				•				•			+-		
	•											• •		'	
	•											• • •	·	-	+-
			•									•		•	· ‡
SITORS ON S	ITE.			- 12	CHANG	es soc	M P1 4	AME AM	0 ==	CIEN	ATIC	MC .	AMO		-
)AN 4 ROB				- {}	OTHER	SPECI/	IL OR	DERS A	ND I	MPOR	ANT	DEC	35101	VS.	
				1											
EATHER CONDI	TIONS:				MPORT	ANT T	ELEP	ONE C	ALLS						-1
loudy . Cool	AM			ľ											•
Jan slee	m. Pm	•													
1000															

15	CATEL 7	12	72
13	NO.		<u> </u>
13	SHEET	/ 0	= /

PROJECT NAME TOTAL Agree Day	not North	SMM	PROJECT NO. 508	1.01
FIELD ACTIVITY SUBJECT: (Geo Chys	er.			
DESCRIPTION OF DAILY ACTIVITIES ARD	EVENTS:			
0630 - Departed Quarters for 0710 - Departed Office trailer	office Trainer	and a	wants to open	gates:
ATIO - Demotel Allie Dules	don John side	Scenaria 90	tin will backed.	suin er. ()
Carry Di Acces To ann	Gatte	ا ا		
5 termes Lot site trad				
0746 - Conductation Code de	Get. Meating	departed &	or work sits	
1150 - 1220 - Lunch Cleans	dance for g	eophysic's	Beauto Work.	
1320 Cain delay			• • • • • • • • • • • • • • • • • • • •	
1300: - Geoghysics Resumed	all esconti	a Soil SM	mnie tlam	
1315 - Caucuckel Indant Cal	Tu Mt. La Sai	Sausi C	wi essafed	Jam
1315 - Concucled talgate Safe	face Samples	FROM BOX	SHOW WELL	
1600 - Completed taking So	il Samples. A	nd stan	led Surveying	12
Some points in the	Demo area	. they w	here Possible	ennon's
IN PREVIOUS BURY	cus.			
1730 - Completed Survey	of yest At	unloado	& campment	ia Siże
Texilen. Departo	Ifon offic	TRAILER		
1810 - answer office TRA	iten discu	ssed would	i- & Schodules	
1830 - Completed operati	ons for de	4		
	:		· · · · · · · · · · · · · · · · · · ·	
Note: encountered on	t Lange Rati	Le Snake	• • • • • • • •	
Live ordinance forested du	in escort of	Soil/sumey	Sample Team !!	ual in.
2-% HE		nea.		
1 - 20 mm			• • • •	
2-Bly-3 Fuces				• •
1-BU-3				
VISITORS ON SITE:			ID SPECIFICATIONS, AN UND IMPORTANT DECISI	
EATHER CONDITIONS:	IMPORTAL	IT TELEPHONE (ALLS:	
Cloudy - Light Rais. Cook All				
Lloudy-warm PM				
PERSONNEL ON SITE DIE	+6 6	. (2.4		

8	DATE	1	1/	3	9:
E	NO.			Ī	
3	SHEET		1	J	

PROJECT NAME TOO	ele Asmy Depot N	ماده	JMM	PROJECT NO.	508.01
FIELD ACTIVITY SUBJECT					
DESCRIPTION OF DAILY	ACTIVITIES AND EVENTS:				•
	Quarters for		المن وبالمنه	Phone +	martin calla
Pros departs	office trains		26.		7, 33,
0724	Lie of To A.	looked	-C6 n	1 2. A. C	0
Clas marries	Jok site trader,	longer :	Charpines	· Sugar	CFTGE
Discontinue	ted gate refus	MA . AT	donnelos	وألها المأكم	m 6 - 2
6766 Consucied	Card gale safing	macung	, 090		
0155 Started	= eaphysics of each	C A	:.	•	
12:00 - 12:00 Lune	Then Back To	GRADING	5144		
16522 - 1 Sisobarc	ies complete fin	May . U.	the late that	Ser Teril	A- UUCOAN
- Eguipunt	hashed up Sea	m over	ung res	Hear TO FIL	THE WAS
1651 Bushing	HILLIAM MOTHISC	70 M.	TEMEN	Contractor	
Total - at pump	house to fell to	d. Ch	haded to	re dept to	tumpuy or
1800 - Eis dept	turned at pump	and fi	Red. Thurs	Lyhen To	we 13 7
office.	railen the dia	made a	ery activity		
120 - Openin	us complete for	e organia			
	sétes completel	wiii 🚓	explysics.		
•	•		: :		
		:			
		1			
	•		:	•	
		: :	•	•	
•	• • •	•		•	
		• •			
	•				• • •
VISITORS ON SITE:				NO SPECIFICATI	
اعجوب والمان بمهم		OTHER S	ecial unders	AND IMPORTAN	T DECISIONS.
threy fisher	. e mu.7500.				
WEATHER CONDITIONS:	lool Am	MPORTA	NT TELEPHONE	CALLS:	
Touty Cloudy .	Lool Am Jam PM 80%				
PERSONNEL ON SIT	#: T)		1		

FIELD	ACTIV	FTY D	AHY	LOG
	70111	<i>.</i>	MILI	

M	NO.	<u>:</u>		OF	
	e tra	17	12	7	2

PROJECT NAME TAN	ele Asmy Dopot	North.	Jmm	PROJECT N	0. 508	? /
FIELD ACTIVITY SUBJ	ECT: GOODINSICS			سربين سار بارسيان السمير		
DESCRIPTION OF DAIL	Y ACTIVITIES AND EVENT	S :	7			<u>.</u>
absordende	d Quarters for E	Histo	البالن	• • •	• ••• • • • • • • • • • • • • • • • • •	
-9.4		- YI L.	/ tan .			••••• :
0735- (1m)	A Train Class	غيماً ور	Humment	awaiting	(Geo. D	(منبع
0750 - Coudnes	ed targate Salay N	Ma diena	eded for w	ORK SIL	Shale	1
Schooling	o Sito For Pits					:
.130-1200 Lun						
	w Delay Thon Con	Nimued	Geophys			
1645 : tomple La	d Geophysics for	n day C	eperted u	inaksite for	25,27	Mich
1655 : Unitoad	id : cyupmed in	Sic. TRA	LER der	auted Site	THA. ISD	FOR
Office 1	milen Them Be	de and	howe.	: •=• · •		
830 - Comple	iled openations	Con I	ey.			<u> </u>
Geophy.	ses chapteled h	ceting	13. Siles			
:				•		
					<u>-</u>	· · ·
:					****	
•	:	:. :	•	•		<u> </u>
	• • • •	• •				
	•	•		: .		
		•				
Ve ordnavice l	1.1	: •				
		•		٠.		
- 105 mm mJ 2 - ru zo miño N					••	: : ••
ISITORS ON SITE:		CHANGE	FROM PLANS	AND SPECIFICA	TIONS, AND	
		OTHER S	PECIAL ORDEI	S AND IMPORTA	NT DECISIO	45.
SATHER CONDITION	ξ: 24	MIFORTA	nt telephon	E CALLS:		
Noon Light	form.					
lookey claudy . 1	lat Pph					
	TTE Dickman +	<u> </u>				

8	DATE	7	15	12
7	NO.			
Ž	SHEET		\ ¢	

PROJECT NAME TOO E.I.	Anny Depat	North	Jum	PROJECT NO.	505.01
FIELD ACTIVITY SUBJECT:					
DESCRIPTION OF DAILY AG	CTIVITIES AND EVENTS	:			•
0630. departed C	Simplen Con	coffice	,	•	
0705 departed of	Tien Tenilon	Gon 1	do site.		
1222. market 5	Le TRAILER .	world e	LUIDARAF	Brocket	1 RANGE
3 Aprilian	on ordrance i	coeate of	3 Bun	as I deton	alian Today
1745 - Ponducted	rail outc Sal	Il Mean	min, dep	ephod site	Marien
Good has	Lr. and Stark	d George	the ores at	nd (learning	of ouce
1245 - 1295 Lunch 7	kun Badi to Ger	du sies	Beh War	on eite f	chech
fleretin d	CW-31 : GWI G3	N 8			
1630 completed (Geophysics for	e day	spanied	Job Site	Jon Sc4
Tombon Se	cand badian	ce (foce)	nd.	•	
1646 apreso S	ite tabilen,	unleade	n eguf	Meany Me	parted 10
TO PHICE II	chilen	. عصد	direction.		
1715 - amind c	Mice trayen		. : i i		
130 - 0 peration	e. Completel for	duf.		:	i
				* ************************************	
The second of th			:		
•	•		•	!	
•	:	•			t demonstration
	• • •	•	•		
•	•			• •	
	•	•		•	
Live ordnance L	mared	•		••	
1- Nov-elethnic Ble				•	•
1- Fuzz PD M557	cap.				
VISITORS ON SITE:		CHANGE	FROM PLANS	NO SPECIFICATI	ONS, AND
Deb Danie Jam		Olnen a	SUINE UNUSH	HALIMITYN I AN	· VEGIJIVIO.
WEATHER CONDITIONS:		BEDGETA	NT TELEPHONE	CALLS	
Cloudy . Light Ro	M	Whate	l offere	•	
	•		U-		
PERSONNEL ON SITE-	Die Le		-(2)		

FIEL	DAC	YTIVITS	DAILY	LOG
*				

		7	14	91
1	NO.			
8	SHEET		, :	- 7

PROJECT NAME Toosla	Ann. Deat 13	octl. Jaim	PROJECT NO. 508 0/
PROJECT NAME Tocale. FIELD ACTIVITY SUBJECT: G	CONTRACT NO	UKIN - KIFI	.703.01
DESCRIPTION OF DAILY ACT	IVITIES AND EVENTS:		1
		72 - 22 - 22	
Ub30 - depended We	vanteus for of	tice leaver. , ori	eind on dap opustion
C) 7 10 " C & DMANLA . A.	Hire HRAILER	Lore souls Waller	
0 135 - approved ST	le Mailen, Lo	cosea elaibuer	
0740: - Canducted	tail gate Salety	meeting acpore	ted for Jobs Site
6750 - arrived do	beauty and SA	ander Geophysics	s and cleaning
1130-1200 Lunch - 4	then Continue	with Heapty sic	5
1 Know 1 lal	Complete and	Ila aib. Vacal	less (1/200 mars) have
1515 - Un Loaded	equipment in	Siturenden Sec.	used all explosive the
AN Rose	2 Prever Po	n 4 day becat	
1660 - denseled Ga	Alles Tond	er.	
1635 - aprived of	Pice toppilen	discussed As	st the lya work and
HIP LICET I	CIV. Alex LANGE		
700 - do needed of	ino topules -	be Bout and P	by Bills, get free.
1780 - Commeted of	Derate and 100	day	
130-Completed a			
161- 1/7 6	1.1.1.1.1.6	Test Pixs, tes	+ Qie tabe
Stocked Ober	L Mare	real ind, its	
	or 7 aug.		······································
•• • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • · · · · · · · · · · · · · ·	
•		• • • • • • • • • • • • • • • • • • • •	
		•	· · · · · · · · · · · · · · · · · · ·
		• •	
	11	•	
Live indumer hoca	Mes.	··· •	
Live cook			
1- RLu-U			AND COMPANY AND AND
VISITORS ON SITE:			AND SPECIFICATIONS, AND AND IMPORTANT DECISIONS.
WEATHER CONDITIONS:		MODETANT TEI SPURME	CALLS
Clear warm to Kot	90"	IMPORTANT TELEPHONE	water.
Charles an an area and	•	, v	
DEBOONNEL ON SITE. T		(()	

8	DATE	7	1	1107	
LYL	NO.		;		L
3	SHEET	•	/		_

PROJECT NAME Tocele Arumi	Depor Korth	Jaim	PROJECT NO. 508	7.01
FIELD ACTIVITY SUBJECT:				
DESCRIPTION OF DAILY ACTIVITIES A	ND EVENTS:	•	:	!
clesci departed Guarter	us for Office	Trailer,	Moeting With	Jan
ciesc departed Cuarton 0840: departed Office to	when for site to	exects it	she aft Sail	Coming
1995 armed site trail	er lander eg	inpmut.	stowel s	ungz
sites. Als arwed site trail sersonnell locat detonate it tomo	ion of Blb-land	in wo	to state It	cuill cations
of sull forings				
1430 - Del Horry Wi		epartus	ek Traden To	
Stake out sould	A Y			·
1345 - Completed Stuikeng	•			
1346-1315 Lunch - 1316 - Started Cleaning				
415-1490 Dely For BE				
1715 - Completed Cleaning &	الم المساء	departed	los site traites	
715 - Completed Cleaning 2 1725 - at site trader. In 1745 - arnied of sice to	hadel even	mu de	parked for aft	Pro Track
1745 arnued office to	milen discus	sed soil	boning acti	عصها
1825 departed office li	onker	. •		
1825 departed office L	iaitei 1			
1830 - Completed (-in a	lay.			0000 = 44r
Hongs was a Reserved	h .	take since	0601000010	C. V
Note: Was Requested	by Jim IVI 16.	tere and	Photogen Phs	POR GREAK
	:			
Live ordname " B-OL EXPLOSIVES VISITORS ON SITE:	.		•••	-
8-a explosives			:	
visitors on site: Natural Wasals	CHANGES OTHER SI	FROM PLANS APECIAL ORDERS	ND SPECIFICATIONS, AN AND IMPORTANT DECIS	ions
Harry 12005	the fie	ld Reconnai	ssance And Mon	, lon , mg
	tor su	specied Uni	exploded paduance	es form
WEATHER CONDITIONS:	MEORTA	NT TELEPHONE	CALLS:	
Clear No 90%.	Corta	eted offic	e	
•				
		···		
PERSONNEL ON SITE: Dickmi	and			

100		4
- 10 N		2
重查		
A 67	4.5	c '
	, AEP	

> NO.	3	SHEET	/ OF /	l
	3	NO.	178.15	

	الكائمانيية : «منهون ويوري والبروانية والمناف التي المناف التي المناف المناف المناف المناف المناف المناف المناف
PROJECT NAME Track Dany Depot	NORTH JULY PROJECT NO. 508.01
FIELD ACTIVITY SUBJECT: GOLL DORINGS	
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:	
	No. 1 A Company of the Advisory
10,630. Geborger Broangers for Bo	soe vivue office amouting de lling
1 (1, 4, 1, 7,	
10635 annual Balge office	1 Water touch the depart for Lab
1738 desert Deader alling to de	Il Water Tank the depart for Jak
H. Hanka	
site trailer.	. brifel drillery Crew on site Checket
0830 Cerunt of fix ria wall	to the fact of the
we with lange office, "gar	e tour to head driller, set up
decon pad , decon ed_	equipment, What the first soil fruit
0940 setters up on first soil	Bring sile. 58 3k Loop
1800 Starled Spil Bornia Car	ducted down hele Cleanance every
S'feet for 20 feet, BK	:58-006
Note: the doilling Rig Used 15 ps	. Air Rig and Recaks a MOF of
One of 111 on the walk of	may not be safe in An ornhonce
JABUNO OLD HATTER ON THE CAN	may not be dire in the standarde
enviancent suggest	USE OF hollow Stem arger, will
affering to get a dozen it	o clean top suaface(1) then clear
With trensten, then Air	a Rig Will be Safer; will hapafully
get it tomorrow. Happy W	oods was going to talk to hanny fisher
1830 Completed drulling for the depe	wed fon Site Tearler
1840 . Unloaded equipment in Site	TRAilen And deposted fon Effice Trailen
1900 - amived office Tranen, disc	used operations for today & tomorrow.
1020 - Pay dold agending Go	
1930 - Completed openations for	. day
Note: at 5 ft thereg is moned as	y in place for MK 26 usage. and the same
Ut 10 4. 15 and 200 the reg heart	if in place for MKZ6 usage.
0	
VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
Dmc Shauk	Possile Doses to Olean Soil bearing Access. areas would be smaller than 75 ff Reduis
Haveny woods	areas would be smaller than 75 th Reduis
'	
SATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
Partly Cloudy 800	Called effice obout Usines AIR Rig IN
The state of the s	Remo area. Recomend Hotion Stem in
	Luture : morduance a peas.
DEDOCMMENT ON SITE: 17	Air C. (4) Lacer(2)

8	DATE	7	2319:
7	NO.		
3	SHEET	· /	

ESCRIPTION OF DAILY ACTIVITIES AND EVENTS: 1025 Departed Con Jobsite. 1026 Arrival Job site, brieflangs people, loaded egaugement as the Uses Departed to Desire making. Departed Statush for Work site. 1010 - Conduited to Destrip the Statush of Departed Statush for Work site. 1020 - a work site. Start graphing below thomas dozen danger where and how to clean old Soil borning, sites and got him Gares. 1020 - Started Cleaning first mit (that was dozen (langer) with the Start Started Cleaning and set up any it a very though what Consider the Soil borning and set up any it a very though what Consider the Soil of Companies. 1045 First its Chample and the fact of the surface (12") by dozen as bird of the Chample of the surface (12") by dozen a bird of the Chample of the surface (12") by dozen to compatible Cleaning for today. Instructed egangement as with the surface of the surface (12") by dozen to compatible Cleaning for today. Instructed egangement as with the surface of the surface (12") by dozen to compatible cleaning for accounts. 1 Soil bring Compatible (total) 1 Soil bring Compatible (total) 1 Soil bring Compatible (total) 1 Soil bring Compatible (total) 1 Soil bring Compatible (total) 1 Soil bring Compatible (total) 1 Soil bring Compatible (total) 1 Soil bring Compatible (total)	PROJECT NAME TOORIE HERM DE pot	worth -	Lnin	PROJECT NO. 508 01
ESCRIPTION OF DAILY ACTIVITIES AND EVENTS: 1025 Departed Con Jobside 1030 Arrival Jak, eith, brief lange people, looked excurpment to these 1030 Arrival tailgate Softing making Departed Stetlands, for Work inter- 1030 - Consultat tailgate Softing making Departed Stetlands, for Work inter- 1030 - A work Sac, Start graphing half. Thousand dozen danger, which can how to clear off Soft boaring, sites and for him Gardy. 1030 - To the delegation and the three transported for the mass dozen (Lovell) were completed Veneral World for 15 at 15 of Companies. 1030 - This right white down for day, language haste for lapan. 1030 - Stanted Cleaning for today. Influenced but for lapan. 1030 - Stanted Cleaning for today. Influenced lapanement we delegate trailed of the surface (12") for dozen. 1030 - Consultat Cleaning for today. Influenced equipment we delegate the day. 1030 - Stanted Cleaning for today. Influenced equipment we delegate the day. 1030 - Stanted Cleaning for today. Influenced equipment we delegate the day. 1030 - Stanted Cleaning for today. 1030				
Description to come at 000. The Doming to come at 000. The Doming to come at 000. The origination to get the property of the comment of th	DESCRIPTION OF DAILY ACTIVITIES AND EVEN	s:		
Description to come at 000. The Doming to come at 000. The Doming to come at 000. The origination to get the property of the comment of th	al as Departition lebecies	•	•	
1810 P. Committed tailgate softer making Departed Stetalle for Work site. 1820 - at Work Site. Start grothing held. Showed dozare devices which are how to clean off Soil boaring sites and for him Going. 1820 - Started Cleaned and Socil boaring ag set up any it concept the Goerstee. Commele Coerstee Commele who have been soil boaring ag set up any it consequently with the Work site Cleaned and Socil boaring ag set up any it consequently who start for appearance. 1830 Dilling but down for day. Deviced for appearance as total of the second of top surface (12") by degree. 1830 Started Cleaning for tolay. Indicated egangement as with touched appearance for day. Is minute Wait for summit to touched appearance for day. Is minute Wait for summit appearance and count of anno area. 1 Soil boaring Committee (Down) 1 Soil boaring complete (Down) 1 Soil bo	Close Control College		0 -0-0	maded exercises to terre
1810 P. Committed tailgate softer making Departed Stetalle for Work site. 1820 - at Work Site. Start grothing held. Showed dozare devices which are how to clean off Soil boaring sites and for him Going. 1820 - Started Cleaned and Socil boaring ag set up any it concept the Goerstee. Commele Coerstee Commele who have been soil boaring ag set up any it consequently with the Work site Cleaned and Socil boaring ag set up any it consequently who start for appearance. 1830 Dilling but down for day. Deviced for appearance as total of the second of top surface (12") by degree. 1830 Started Cleaning for tolay. Indicated egangement as with touched appearance for day. Is minute Wait for summit to touched appearance for day. Is minute Wait for summit appearance and count of anno area. 1 Soil boaring Committee (Down) 1 Soil boaring complete (Down) 1 Soil bo	ceso arriver sal mar, o	ry lange p	يحرر يتمهما	and exchipmen of the
BO - of Work Side. Start grating held. Browned Gozar deriver in hiere and how to Clean off Soil locating, sites and got him gained. Then Started Cleaning first with (that was dozer (hours) with coensider. Coensider Cleaning and Soil locating and set up on it is every though Worked Vener Well first. It so of Cleanance. 530 Dilling fruit down for day. Inspired facts for Repair. 630 Started Cleaning, additional Sites, fore Soil Governo. a bold of White Channel of the surface of th	Lines Library to alread to	C DIO	•	· · · · · · · · · · · · · · · · · · ·
and how to clean off Soil boning sites and for him going then Started Cleaning hinst with that was dozen Cleaned with Coensider. Coensider with Soil bearing and set up on it everything was light in the cleaned and soil bearing and set up on it everything was been a soil from the cleaning and thought for the cleaning of the surface (12") by days a stoled of the surface (12") by days a soled of the surface (12") by days a soled of the surface (12") by days a soled with considering the days to the surface (12") by days a soled was a fine of a surface (12") by days a sink that a paratism of days is minute. Waid for surrect, the surface of the surf	25:10 -6 andersted tail Gate Soffity	Meeting - De	sborn za	e have took site
Coensice. Comple OHS- (intrate channel and Seci bearing as set up on it c very thing Worked Very Well for 12 20 of Cooppanies S30 Internal oute down for day bergowd harts for lapan. Bis Starked Cleaning add themot sites for lapan. a total of 4 acts Channel of top surface(12") by dozen. Bo congletel cleaning for today undertied egasperment in with too finished aperations for day 15 minute Wail for successful to finish aperation for day 15 minute Wail for successful to finish aperation for day 15 minute Wail for successful to fine set of curio (total) The Sail bound complete (total) The Sail form down to 40' CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. Complete to Clean Exp 12" of and remove to the form of the first and remove to the first form of the first and remove to the form of the first and remove to the first form of the first and the second of the first and the second of the first offer of the second of the first offer these apertion.	200 - at work Site. Start gratia	y hele the	piùcq :q	osac darver where
CHANGES FROM PLANS AND SPECIFICATIONS, AND SPECIFICATIONS, AND SPECIFICATIONS. AND SPE	and how to clean of S	a'il baning	Siles a	ed got him Going
UNDORFORM VICTOR BUT SERVICE SO SET UP on it a very thing Workers Victor But from 1 and 1	then Started cleaning to	ust jube [Thus wa	o dozer ("cued") with
Workers Very Well for 1 20 of Clarence C. San Dull high but down for day bergond lasts for legan. 30 Stanted Clarening add : Howard Sites for Society. a total of Visito Cleared of top surface (12") by doing . 30 Conseptial Clarening for today. Uniterated egangement in with trailer and toparted for quarters in minute. Wait for accust, box free gates to get and of amount are. 1 Soit bours Complete (Dotal) 3rd Seit (pring down to 40' CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECI	Genslee. Connelle			
Workers Very Well for 1 20 of Clarence C. San Dull high but down for day bergond lasts for legan. 30 Stanted Clarening add : Howard Sites for Society. a total of Visito Cleared of top surface (12") by doing . 30 Conseptial Clarening for today. Uniterated egangement in with trailer and toparted for quarters in minute. Wait for accust, box free gates to get and of amount are. 1 Soit bours Complete (Dotal) 3rd Seit (pring down to 40' CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECIAL ORDERS AND INFORTANT DECISIONS. CHANGES FROM PLANS AND SPECI	1045 - first site change and wo	I bearing any	set up	on it everything
STORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS. AND SPECIFI	Worked Venu Well for	1 20! of C	Ceapanic	€
a fold of 4 site Cleaned of top surface (12") by dezer. a fold of 4 site Cleaned of top surface (12") by dezer. Be completed Cleaning for today. Indeeded egangement in with too finished aperations of day 15 minute. Word for suresty spen gates to get aget of amb area. 1 Soit bowing Complete (total) 3 Soit bowing Complete (total) 3 Soit bowing Complete (total) 3 Soit bowing Complete (total) 3 Soit bowing Complete (total) 3 Soit bowing Complete (total) 3 Soit bowing Complete (total) 3 Soit bowing Complete (total) 4 The special orders and information to the face of t	530 Drill sie Pule down for	day - Benjoue	1 Buti fo	or Repair.
a total of 4 site Cleaned of top surface (12") for dozen. To completed cleaning for today. impossed egregoment in orth too lineted aperations for day. 15 minute Wait for survey. Expen gates to get and of anno area. 1 Soil bring complete (total) 3rd Set (pring down to 40' CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. Aper woods John to Clean to 12" of soil removes Other for cultimate it much leave to Other to Clean to 12" of soil removes Other to 12" of soil removes Other to Clean to 12" of soil removes Other to Clean to 12" of soil removes Other to Clean to 12" of soil removes Other to Clean to 12" of soil removes Other to Clean to 12" of soil removes Other to Clean to 12" of soil removes Other to Clean to 12" of soil removes Other to Clean to 12" of soil removes Other to Clean to 12" of soil removes Other to Clean to 12" of soil removes Other to Clean to 12" of soil removes	630 Stearted Clements addition	onal Siles	FOR S	Soil bonsing -
ISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. CHANGES FROM PLANS	a total of 4 site class	Dod Tons	urlace (1	2") Pre donce
ISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. CHANGES FROM PLANS AND SPECIFICATIONS. CHANGES FROM PLANS	7.50 Completel Claning Low to	lan inter	Seed as	manual in sile
isitors on site: Soit bring Complete (Date)				•
Soit bours Complete (Dotal) Stat (pring down to 40' CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. ARMY WOODS OF DARIN CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. OF LEE FOR CALL TO LEE FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. OF LEE FOR CALL THE PROPERTY OF A SAIL REPORTED TO CONTINUE TO CON	soo / l O o o o to		,	Wait der much
Soit bours Complete (Dotal) Stat (pring down to 40' CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. ARMY WOODS OF DARIN CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. OF LEE FOR CALL TO LEE FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. OF LEE FOR CALL THE PROPERTY OF A SAIL REPORTED TO CONTINUE TO CON	have get a bod and	C. Commission	A P I CHARLE	
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. ARM, WOODS OF THE Fig. and multiple of the first and continued of the first and continued of the first and continued of the first and continued of the first and continued of the first affect of the first approximation. EATHER CONDITIONS: WHOORTANT, TELEPHONE CALLS: Contacks of the first affect approximation.	contact decre to the cutor of	i marine de		
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. ARM, WOODS OF THE Fig. and multiple of the first and continued of the first and continued of the first and continued of the first and continued of the first and continued of the first affect of the first approximation. EATHER CONDITIONS: WHOORTANT, TELEPHONE CALLS: Contacks of the first affect approximation.	The City Comments	s cure.		- 4
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. ARMY WOODS OF THE Fig Call Make It Harch Casin To Changes I would be a serious to the factor of the factor	o see young down .00	9 40 :	•	
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. ARMY WOODS OF THE Fig Call Make It Harch Casin To Changes I would be a serious to the factor of the factor	• • •	•		
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. ARMY WOODS OF THE Fig Call Make It Harch Casin To Changes I would be a serious to the factor of the factor		• •		
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. ARMY WOODS OF THE Fig Call Make It Harch Casin To Changes I would be a serious to the factor of the factor		•		
OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. John Danin Whach Jellenson (Layue) RATHER CONDITIONS: MEDITANT, TELEPHONE CALLS: Grant Orders AND IMPORTANT DECISIONS. Community of April Annouse of the frequency of the frequ		• •		
OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. John Danin Whach Jellenson (Layue) RATHER CONDITIONS: MEDITANT, TELEPHONE CALLS: Grant Orders AND IMPORTANT DECISIONS. Community of April Annouse of the frequency of the frequ				
OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. John Danin Whach Jellenson (Layue) RATHER CONDITIONS: MEDITANT, TELEPHONE CALLS: Grant Orders AND IMPORTANT DECISIONS. Community of April Annouse of the frequency of the frequ	VISITORS ON SITE:	CHANGES FRO	OM PLANS A	ND SPECIFICATIONS AND
JARY WOODS Job Darin Johnst Jefferson (Layue) RATHER CONDITIONS: JEAL JO'S Grant Grant Continue MEDITARY, TELEPHONE CALLS: Grant Grant Cose agreeting Grant Grant Grant Cose agreeting Grant Grant Grant Cose agreeting Grant Gr	are shark JMM	OTHER SPECI	AL ORDERS	AND IMPORTANT DECISIONS.
RATHER CONDITIONS: WHONTANT, TELEPHONE CALLS: Gentacko office of out lose apustion	Leny Woods			
PATHER CONDITIONS: MIPORTANT, TELEPHONE CALLS: Gentacko office of out loser appearing		3.4	7	
See 30's	WEATHER CONDITIONS:	IMPORTANT,	TELEPHONE	
•	<u> </u>			
PERSONNEL ON SITE TO L	•	[••	•
PERSONNEL ON SITE DILL DELLE (2)		1		
	PERSONNEL ON SITE TO L	160 (3) 10	. /2\	

8	DATE	7	124	92
E	NO.		İ	
Ž	SHEET		, OF	,

PROJECT NAME TODELE ARM	Depot Month	JMM	PROJECT NO. 50	8,01
FIELD ACTIVITY SUBJECT:	1 Boning			
DESCRIPTION OF DAILY ACTIVITIES A	ND EVENTS:		:	: :
0630 - departed Cuentres 6	a Joseph Suber Tra	de.		
			on track aux	ities.
0655 - curred site True dutter + Janu		0		Y
0745 - Conductel Lail gas	- Salt. ME.	through fo	awork site.	
Esembles Jam 1d	eiline crew w	want sin in	demo suea	
1030-1200 Storled Setting	UD NEWY SA	to and Cle	arm it	· · · · · · · · · · · · · · · · · · ·
1200 - 1200 A. O.M.	3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	13		0
1400 - 1600 - Final & CC	earing and set	in no sut	sal foures	10 50-001
1400-1600 - Finished Cl	equipment to	nell Soil	born set	aconin
equipmeil and	raning it.			
1725 - Departed Site Tree	ilen, Unload	led egup:	meet in trail	
1725 - Departed Site tra	tran getting !	Voter, dies	ped of parp	ework
	المستهدة المناهم والأرواميد			
1800 - operatures con	plute for la	4 .		
l	and the second s		/	
2 Complete S	all young &	meshed to a		: ·
Alaker C. J. Cill (ma			b a d	
Note: foesten SN: 672	29021110.00 an	BINEAL WENCE	<i></i>	
•				. :
		•		
		•	•	
•	•	•	•	
	•			*
VISITORS ON SITE:	CHANGE	S FROM PLANS AN	ID SPECIFICATIONS, A	ND SIONS
Deb Drein Jam	J CIMER S	k PAINT AUREUS I	TO HE ON I AIL! DEC	
ATHER CONDITIONS:	MPORT	ANT TELEPHONE (ALLS:	•
deen 80%	Chied	tom pm for	Report Focuste	k down.
•		•	•	
DEBOONNEL ON SITE. TO	100 (2)	1 00 000		

8	DATE	7	<u>' .</u>	25	9.
171	NO.				
ě	SHEET	r	/	2	

PROJECT NAME Toucke	Henry Deapt 2	orth	·Jm	M	PROJECT	NO. ح	as, c	
FIELD ACTIVITY SUBJECT:	Soil BORINGS							
DESCRIPTION OF DAILY ACT	FIVITIES AND EVENTS:					:	. !	
obje-departed Ga							 -	,,
Claso - Overment 51	to Tensile R.	Loade	eleg u	medi	nt an	truc	£	
0715 - Conducted	Tail gave S	afaty	Moet	ong Dy	oartes	For_	wer	tesite
						: , !		
0940 - down hole	Clearance Com	gerie.	on Kol	2, 50	20.5		<u> </u>	
Soil boaing	Continued unt	tdfin	the bi	in 79	مبدط	אל מבו	ex	Sul
I						·	ــــــــــــــــــــــــــــــــــــــ	<u> </u>
10:30-13:30 Char	mei(surface/s	وسمين	any e	omplet	oon.	regir.	16.71	rouse
halation.			:				<u> </u>	
1720 - downhole	Charanei com	puus.	en sa		7 3	<u>من - اد</u>	11/10/	1000
1815 - Stopped d	relleny for la	11 -	elice!	au ig	My See	eerid.,	nou	MAN II
1830 - Campmet	have latte.	Center	-	unity. E	-ofan	agan.	1-7	
1830 - dopented) had 15 m	of all lands	gor	elling.	MANAE Pilos of s			Vall	Causo
1011 - 11) to tool	Jell O	y to a	11.3	77.50		•		
1910 - Water taul	The state of		for	use	۔۔۔۔			
1930 - aperation	a cosupere ya		Jata i	•			+ +	
	* * * ********************************	• •		•	•	• •••		
	••	•	: •	•	•			
	• • • • • • • • • • • • • • • • • • • •	:· 		•	: .			
					:	•		
			•		•			•
Live ordnance Loc	exted							
2-20 MM								
8-02 HE	•							
VISITORS ON SITE:	e)		es from P Special O					S.
W CHENTAGE LOUGH	~							
WEATHER CONDITIONS:		IMPORT	ANT TELE	PHONE CA	LLS:			
Clear to party Clau	ls 80.							
' '	•							
PERSONNEL ON SITE	Diction De	- 11	(,	M / d / (フ)			

ă	SHEET	OF /
5	NO.	1
8	DATE! 7	36 92
	4	3.5

ROJECT NAME TOOKLE Anny Depos	North Shini	PROJECT NO. 508,01
HELD ACTIVITY SUBJECT: Soll Being	C	
ESCRIPTION OF DAILY ACTIVITIES AND EVENT	'S:	
6.30 depoiled Ecounter for Lot's	its Trader.	* * * * * * * * * * * * * * * * * * *
655 amust site itaiter, 1	•	me!
710. Consucted tail gotes	futy Meeting and	deputed for the set
to Continue And Jour	~•	
900-1300 Charel situ for net	Low born - had to	use dozen to cher top
900: 1300 Ckerel situ for neft surface finel. Complet	in Cleaning, then det	up dull ris.
300 Completed soil foring 5B-0	so y and sel up o	n 58-003
\$00 - Started Cleaning area for	e suft soil form	Y
600 - Completed Cleaning Loiz	todeig	
hery730 Collecting emplosive	Reactivity Style	s Fram Fatine 501/
730 - Started Star Securin		
730 - Started Securin	g. Equipment and	Kigo for the day.
Unloaded Churpment n Saucely to lope gote	is fite trailer.	loeked gates lande
soundy to ppin gote	and Fine Dept to	line on Pumphous
750 - departed let site to f	ill Water tanks	
750 - departed left site to f 825 - Water touch filler for	Tomorrow and	departisfor office
835 - armed office trailer	- summer past	wom and sendule
for the rest of week.	Λ / ··· · · · · · · · · · · · · · · · ·	
700 - aperations Complit	cofor day.	
·	•	; upp pår sessen enumped s
:	• •	41000.000.0
•		
ISITORS ON SITE:		ND SPECIFICATIONS, AND
R. Jand Jahanie (hyre)	OTHER SPECIAL ORDERS	AND IMPORTANT DECISIONS.
	l	
EATHER CONDITIONS:	IMPORTANT TELEPHONE	CALLS:
ody Unicy 90%.		
•		
	Oullers (3) JAM	

8	DATE	7	١	77	9
171	NO.		i		
Z	SHEET		İ		

PROJECT NAME Toucle Army Depot Kingt	L. JMM	PROJECT NO. 508, 8/
FIELD ACTIVITY SUBJECT: Sell BARIAGE		
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:		
620 - departed Quarter for FED Ex an	I allie trailer	•
640 -deported office trailer for the	in there .	
205 - anne Sol see trailer.	logain esus	
1735 - Coverier to the All Cate A of the H	to density	Trailer II al
725 - Consulted tail gate soften the horation and started drillen	and the sea	the James To Sugar
i la a cO	7 Marsacers. 200	
1845 - seartel Rol & Dan (Jum) to	de a Backgroun	el hand ourse. Cail
0 + 4.11		
10so Company to The Daniel	in Oal Atten	0 0 10
1950 - Competti auth hand suil bo Nact suil Pioning. SB-00	& Com Litid	A Sand Marie
Massage Deland To Annual Des	a contra	
1825-1050 - Delay du to dange Bu		
and the sale of th	-10-	
230-1400 - ilmas Cleaning neft So	is been secure	
410-1440 - delay for Guming ag	accounts on M	0
445. Recemed dielling, also Cla	ming migs as	C. Berry
700 - Competel Cleaning next four	Talle.	- /3 00 - 7
708. Shut down aparations on.	Tod Sign	a 2 Can al to 1
905 - secure eguipment in lite	on a lama to	and Walter
910 - depoiled the harles for	All to	
955 - Could not get funghous	excurrency to	ger war. again.
for office leader	· 1	A- , a / A/ 11 A/ i
2030 - Completed aperations for a	lu Paper Work and I	frame for Nept days
Live orderane	· · · ·	
GOZHE, K of BIU-3 with Explo	11.	
VISITORS ON SITE:	KANGES FROM PLANS AND	SPECIFICATIONS AND
		ND IMPORTANT DECISIONS.
	POSTANT TELEPHONE CA	rris:
Cleante Scatter Clouds 95	parted tom on pe	egist
•		

3	SHEET	<u> </u>	<i>j</i> 01	· /
	240			
	orte		128	91

	Honry De		V. V	****		10. 50K	
FIELD ACTIVITY SUBJECT:	Seil De	RINGS	**************************************				. ! .
DESCRIPTION OF DAILY ACT	IVIIIES AND E	AEW19:	1		مانيونس		
cksa depanted a	yesters h	on Bfi	mp hou	عد 3,	Called	Main	Luciacia
Reison To:	turn it	oner L	ind it. a	n electri	uan.b	ten wa	o: Called
an electrical	serom K	rocked al	our feete	ieg,tku	y will a	theyer to	by take
0710 Went by of	fine to in	form Del	a of wo	لمتعر ستلا	wition	- pertie	dup!
Span Clane	n and he	aded of	or Site	Trader	. ,		
0745 - arrived se	ti tractico	, looked	equen	ent any	Sheade	l for Son	hade.
0755 - Consaid	Tail gate	safety 1	westing !	and the	m Mah	e final	People
_ an soil for	my site.	· · · · · · · · · · · · · · · · · · ·	↓ 1 .		. :		
900 - Tand Ba	and hale	Olegan	e on Sb	3-008		:	
1600 Complete	down her	u Clean	در سر سب	8 - 00 8,	Continu	a sul	0
030 12:00 - 5 Taiel	Cleaning.	mest ord	hame at	٠			
12.20 - Dutl right							
1615 - Semme	محلقه و	المدادا لمم	ملا بيلنه	aldi t	and R	i Pui	
1640 - Unioaded	thurson	نه سا اس	2. trade	o and d	inent	localle	(Cartie)
					7: 7		
1700 - Manual Ok	liei. Gairi	w O Zu	seems 6	11310120	w Cal	tu tis n	
1762 - armet of	fici halie Bamalete	for the d	reurs 4	moiro	w (tak	nitus	
1730 - Africations	Bimplete	for the d	reurs 4	morro	w cat	nites.	
1730 - Afections	Bumplete	for the d	reurs 4	mours	w_(cat	nites.	
1730 - Africations	Bimplete	for the d	reurs 4	mocro	w (tab	nites.	
1730 - Africations	Bimplete	for the d	reurs 4	moire	w (ag	nites.	
1730 - Abunel of	Bumplete	for the d	reurs 4	morro	w (at	nites.	
1730 - Armel of	Bumplete	for the d	reurs 4	mocro	w (tab	nites.	
1730 - africations	Bimplete	for the d	reurs 4	mocro	w (at	nites.	
1730 - Africations	Bemplete.	for the d	reurs 4	miorio	w (vit	nites.	
1730 - Abunel of	Bumplete	for the d	reurs 4	mocro	w (tab	nites.	
1166:- armel of 1730 - offertions	Emplete	fin the d	LACELS LA	PLANS AND	SPECIFICA	TIONS, AND	
VISITORS ON SITE:	etez Lavona	fin the d	eurs (PLANS AND	SPECIFICA	TIONS, AND	
1730 - Africations	etez Lavona	fin the d	LACELS LA	PLANS AND	SPECIFICA	TIONS, AND	
VISITORS ON SITE:	etez Lavona	fin the d	LACELS LA	PLANS AND	SPECIFICA	TIONS, AND	
VISITORS ON SITE: Tob Decin James 1.	etez Lavona	feir the o	LACELS LA	PLANS AND	SPECIFICATION (ID IMPORT)	TIONS, AND	
VISITORS ON SITE: Deb Verin I mm ; Richard I efficier + mech	etez Lavona	feir the o	ACCLA LA	PLANS AND	SPECIFICATION (ID IMPORT)	TIONS, AND	
VISITORS ON SITE: The Drain I many Process of the	etez Lavona	feir the o	ACCLA LA	PLANS AND	SPECIFICATION (ID IMPORT)	TIONS, AND	

g	DATE	7	1200
Z	NO.		
3	SHEET	_	16

ATHER CONDITION TO CLEAR			IMPORTAN TOM - Jo	TELEPHONE	CALLS:			
SITORS ON SITE chase Jeffers Adrain.	is (layore) + Me	chanic		From Plans / CIAL ORDERS				- _
					·			• • • • • • • • • • • • • • • • • • •
•	· ·							:
	•		• •	,	•	. 🚣		
•		•	. *			• • ••	+	
in - (April 1	ation Cos	ysiacu y	or ciny.				<u> </u>	 ;
20 - /LA	tion of	THE STATE	an do	i puny	weene c	*L .		-
m- au	in office to	make .	"Ellenies	un pap	acuraci.	enle	6	<u>~</u>
rev - depa	teaile Lieu	tes for	office	isenter.	·		0	<u></u>
115 - Will	aded eigen	sould the	sili di	ille, <u>.</u> :				 ·-
DC - Stan	finished (ung ig	way	us. on a	ulv.	. 		<u> </u>
136: - 1845 -	finished (leaving 4	reflale	and pref	sou of	in ch	illre	4
30 - 5B-0	07 Comple	ted.	U					
CC. 1710-	escation l	Sund 111	inh ele	ingener ?	ال وسيد			+_
320 - Coicm 244: - 1440 -	hule llean Combucted escorting h 07 Comple	nu fon	الماليات	SB-00.	1			+
			·	•				
215: 575:00	ie. Na Complete Li	d Setup	.m 5.B-	ion7 a	nd four	n hole	Lleon	24
30 =1145.fin	it leaving	may bina	ing lie	ation.a	maiter	, Dilla	y set	iye
Alechan	- · · · · · · · · · · · · · · · · · · ·	. <i>T</i>				3 .	<u> </u>	<u> </u>
130 - diamil	uted tailga I six trail	- for so	il Com	locale	- Jaco	E WH	reson	Z
Alli- Romali	Til talo	to asket	mules	e allai	Lein M	e Kamen	1	R
630 - depun	ted Cuart	en for s	of accid	inier Danie 7 m	Tuesto		<u></u>	-
				٠ ٠,٠				· • • • • • • •
SCRIPTION OF D								

1	3. 7		19	2
3	SHEET	1	? 5 /	

·	TIVILLE DAILS LOC
PROJECT NAME Telele Annu Dernt Hon	The 10101 PROJECT NO. 508.01
FIELD ACTIVITY SUBJECT: Seil Ponings	
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:	
19630 - deported Quarter for Job Este	tinela
5700 - arrived at to Trailer, Loade	
0720 - Consincted Tail age salety steel	The departue line what with it we like
0825 - Started down hate Charance	they departed for work sett , sit up Rig.
9940- Completed four hale Elevano	
1130 - Med amounting for S. I. Head Cont	using in on morrage for Cent Piet dissert
Continu with Eallbourg.	unique on Morrage for lest Pit depling
1800 - Floris Daywing Atillian	sails servering Decare and
Unboard equipment in the	rile removing deem pad.
1130 - departe in Trails	to man have to drive decay Water
in approved and	for nom have to deing decon water
1905 - Linched dumo decon 1	Nater and ment to others trailer,
27) - Completed operation do	Nater and new to office trailer. Any and 10 Lay exple.
9 soil frain langel	0.0
VISITORS ON SITE: Richard Jafforing + 2 (Longue)	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
Kichen 1 shame i actualiza	
SATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
liar - hat 98 0+	Calleton Pregent update
•	•
PERSONNEL ON SITE DICKMAN LAYNE	(S) Jan (B)
THE WAND IN THE	

8	DATEL	1y	92
1	NO.		
Z	SHEET	/ OF	

PROJECT NAME TODGE FRAM DOOF NO	seth JMM	PROJECT NO.	7.01
FIELD ACTIVITY SUBJECT: FILL / NVestocto			
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:			
0630 - deported Quarters for Bad	se office to obta	in bodges	they ar to
0630 - deported Quarters for Bad office transported meeting office transported office transported 0855 - arrived site tender, las	site traler.		N
085- animal site tanter, la	Del equipment	in truck,	Back Hoe
0930 - departed for site, statuel	DESCRIPTION OF		
1200- About Combinedon of deco	- Dad . Masked	off Saliza	Zone
for test pil and surface co	Diarrel a 180.	7	
1500 - huished digging / decon of	Birchbon a ffee	Test Ac.	
1/030 - SIGNAL CREATING AND FIRE	WL SR TWI GA		
1650 - Completed Cleaning test Pi	I who and depo	year for sale	Tribis 1
1650 - Completed Clearing test Pi 1700 - Unloaded equipment in	. Lite trailes .	epetro sil	e unto
Demography to J.II.	•		
1745 - Steam cleaner tink fil	then Token t	office has	en the
1815 - departed office trailes to to	he tale to ayar	this and the	
to his flat tou, gut hyde such has pull steam els	and the	analiti at	18.53
1930 - operations computerfor	da.	and the sail	
1 Pel Completed.	. 	•	.
, ve companies.	Note: all tel Pit.	ites are instan	e cleans
tilan u	& sufaced clean	Cantest Pot a	ua only
	whele again at low		, , , , , , , , , , , , , , , , , , , ,
BorHe			
VISITORS ON SITE:	CHANGES FROM PLANS AND OTHER SPECIAL ORDERS A		
<u> </u>			
WEATHER CONDITIONS:	R:PORTANT TELEPHONE CA	ILLS:	
WEATHER CONDITIONS: Chean to evalual cloudy. 96 - (high)	Ton Yamy - Project	update	
1.	·		
PERSONNEL DITE Dickmann Cole	+ Jann(2)		

\$ NO.	SHEET	OF /
	No.	

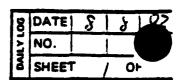
·	, t-			
PROJECT NAME TUCKE AICTUR	Depot North	JM1121 PRO.	ECT NO. 508,01	
FIELD ACTIVITY SUBJECT: FILL	investigation		, -	
DESCRIPTION OF DAILY ACTIVITIES AN	D EVENTS:			:
Mois Syparted greatery	to office track	Le , fich up:	Stem Gener;	Pat
from a less to the	Tour Continue,	equiti por les	Tuck	 -
6720 anne sile trail	ce , - com regi	accommen is	· care	-
0845 Conducted Tail q 0800 departed site traile	all safety like	il Min R	1.1.1. 10.	
Chair and it at Trip	Just au ra x			سر
1200: 6- 1- 200 Oil	ع المعلق المارية المعلقة المعلقة المعلقة المعلقة المعلقة المعلقة المعلقة المعلقة المعلقة المعلقة المعلقة المعل	hal direkt Ca		4.1
ARCA Completes Sing Put	/ A li Can base	i Men. m	Tal H. 35 E	
1200 seach to start tid Re 1200 Completed 3rd Pid 1225-1255 second Sonobe, 1225-1255 Lembre.	-Gu la Frag. Dan	الماء وحضورة الماء	THE WARD OF THE REAL PROPERTY.	-
1225-1255. lundi	the List of the	in a state		i
1355 delay in digging de	101	· water ·		•
15m - 1525 Dita 1 1	1 0	the a	way D de	
1500 - 1525 Pelan for li 545 Finished Best Pet,	DURE	Onehet France	D. 71. accorded	
Elges, Muse muta	I.	راسي الساسات	, raged Jerman	
130 - Equipment anlos	tet Ox 11	las La Harre	1244	
Den Curic U A	la temania	= depund	ad teniles	
130 - Envisorent anles	سالطيم س على	elevand des	with for other	
timber.	•		7	
1800 - aperations Com	aletenta de	ملتد عدمة 4	Commeletale.	
				:
•	•	;		
fric obdienet	· •	•		
1- 30-06 Round	• •			
-5" Ruket Faze.	· ·			
Fire with Bouler Ant Flee	+. `		• • •	
VISITORS ON SITE:	CHANGES F	ROM PLANS AND SPE	CIFICATIONS, AND PORTANT DECISIONS.	
	Olnen are	CIAL UNDERS AND IN	PUNIANI DECIMUNS.	
LIEGR - 90 a high AM	MIFORTANT	TELEPHONE CALLS:		
Cloudy-han in Par				
story name of the	1			
PERSONNEL ON SITE 7. 1	. 11.	(2)		 · · · •
PERSONNEL ON SITE DICEMENT	U COR FIMM	<u>(4)</u>		

8	DATEIS	1610=
15	NO.	
3	SHEET	

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: (630 - departed office trailer for its trailer (715 - departed office trailer, loaded eggreys must a bruch (7140 - Conducted their gate solver, Mig departed to Wah sele, escould JEMM to Checking that i'd locations in desho area. (445 - Anady to start deging test file (1200 - 2 Pita Complete fatheries Contained redinance sideries, fanding Chemic Crew, south committees, 5 god Solvertype Can, 10 55 god dawn Smillamm shell daring Mirc. Metal. 200 1230 inneh. 1588- Completed 2 pits. I pit contained higher at pit Contained loans Wine parts, bonding & press wetter terms (450 - Completed Clearing test Pita areas for tormoscon) (450 - Completed Clearing test Pita. (705 - Equipment controlled in selections and departed for Caracters (730 - Spiration Complete for day. 4 test pita Completed. CHANGES FROM PLANS AND SPECIFICATIONS. AND CHANGES FROM PLANS AND SPECIFICATIONS. AND CHANGES FROM PLANS AND SPECIFICATIONS. AND CHANGES FROM PLANS AND SPECIFICATIONS. AND CHANGES FROM PLANS AND SPECIFICATIONS. AND CHANGES FROM PLANS AND SPECIFICATIONS.	PROJECT NAME Topole A	amus Depot Nonth	JMM	PROJECT NO. 508.01
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: (630 - departed Christery for office trailer 2740 - around office trailer, for att trailer 2740 - around office trailer, localed equipment or bruch 2740 - around office as ober, mile departed for Wah sile, excorted 2840 - Conducted theiligate as ber, mile departed for Wah sile, excorted 2840 - 2 Pits Complete bething that file 2800 - 2 Pits Complete bething its contained ordinaries library formation Simultania shill carrier a part contained to the port contained formation Simultania shill carrier method. 2800 - 1230 Around. 2800 - Complete a pits. I pit contained to them of port contained formation 2815 - Stand setting up and Closering text fit areas for tormation. 2815 - Complete Clearing text fits 2815 - Stand setting up and Closering text fit areas for tormation. 2815 - Stand certific up and closering text fit areas for tormation. 2815 - Stand certific up and closering text fit areas for tormation. 2815 - Stand certific up and closering text fit areas for tormation. 2815 - Stand certific up and closering text fit areas for tormation. 2815 - Stand certific up and closering text fit areas for tormation. 2815 - Stand certific up and closering text fit areas for tormation. 2815 - Stand certific up and closering text fit areas for tormation. 2815 - Stand certific up and closering text fit areas for tormation. 2815 - Stand certific up and closering text fit areas. 2815 - Stand certific up and closering text fit areas. 2815 - Complete fit areas. 2815 - Stand certific up and closering text fit areas. 2815 - Complete fit areas. 2815 - Complete fit areas. 2816 - Complete fit areas. 2816 - Complete fit areas. 2817 - Complete fit areas. 2817 - Complete fit areas. 2817 - Complete fit areas. 2817 - Complete fit areas. 2817 - Complete fit areas. 2818 - Complete fit areas. 2818 - Complete fit areas. 2819 - Complete fit areas. 2819 - Complete fit areas. 2819 - Complete fit areas. 2819 - Complete fit areas. 2819 - Complete fit areas. 2819 -				
19740 - Conducted their state have for soles agains must a buch 19746 - Conducted their gate solet, Mig departs for Wahrele, excoded 19740 - Conducted their gate solet, Mig departs for Wahrele, excoded 19740 - A pits Complete betting that his contained ordiname tichnic franking 1970 - 2 Pits Complete betting the Contained ordiname tichnic franking 1970 - 2 Pits Complete betting where Mitsel. 1970 1970 inner. 1970 - Complete april 1977 contained bothing at per Contained bond 1970 - Complete april 1970 contained bothing at per Contained bond 1970 - Complete Clearing the Pate. 1970 - Complete Clearing the Pate. 1970 - Equipment Unbadded in selection and appeals for Charters 1970 - Equipment Unbadded in selection and appeals for Charters 1970 - Equipment Complete for day. 4 test fats Complete. 1970 - Charters and important decisions. 1970 - Other special Orders and important decisions. 1970 - Other special Orders and important decisions.	DESCRIPTION OF DAILY ACTIV	VITIES AND EVENTS:		
19740 - Conducted their state have for soles agains must a buch 19746 - Conducted their gate solet, Mig departs for Wahrele, excoded 19740 - Conducted their gate solet, Mig departs for Wahrele, excoded 19740 - A pits Complete betting that his contained ordiname tichnic franking 1970 - 2 Pits Complete betting the Contained ordiname tichnic franking 1970 - 2 Pits Complete betting where Mitsel. 1970 1970 inner. 1970 - Complete april 1977 contained bothing at per Contained bond 1970 - Complete april 1970 contained bothing at per Contained bond 1970 - Complete Clearing the Pate. 1970 - Complete Clearing the Pate. 1970 - Equipment Unbadded in selection and appeals for Charters 1970 - Equipment Unbadded in selection and appeals for Charters 1970 - Equipment Complete for day. 4 test fats Complete. 1970 - Charters and important decisions. 1970 - Other special Orders and important decisions. 1970 - Other special Orders and important decisions.	classe doon the Co	on the state of the state of	Timbe .	·
19740 - Conducted their state have for soles agains must a buch 19746 - Conducted their gate solet, Mig departs for Wahrele, excoded 19740 - Conducted their gate solet, Mig departs for Wahrele, excoded 19740 - A pits Complete betting that his contained ordiname tichnic franking 1970 - 2 Pits Complete betting the Contained ordiname tichnic franking 1970 - 2 Pits Complete betting where Mitsel. 1970 1970 inner. 1970 - Complete april 1977 contained bothing at per Contained bond 1970 - Complete april 1970 contained bothing at per Contained bond 1970 - Complete Clearing the Pate. 1970 - Complete Clearing the Pate. 1970 - Equipment Unbadded in selection and appeals for Charters 1970 - Equipment Unbadded in selection and appeals for Charters 1970 - Equipment Complete for day. 4 test fats Complete. 1970 - Charters and important decisions. 1970 - Other special Orders and important decisions. 1970 - Other special Orders and important decisions.	معرد ما معرف الما	in the flance	Traile	
ONUS - Condustrat leilgete solver, milg departed for Wah sile, excelled Janus to Checking test i'll locations in chino area. 1965 - ready to start degging test file 1965 - 2 Pits Complete Jathyrids Contained and reme sideric franking. Grand Crew, south immeters, 5 god Solvertype Can; \$55 god deem 5 mullaum shill learing Mice Metal. 200 1230 issuel. 1568 - Complete of 2 pits. I per contained homen of per contained hand mineparts bonding up and Clearing test Pet areas for tornessed. 1565 - Stand setting up and Clearing test Pet areas for tornessed. 1565 - Complete Clearing test Pets. 1705 - Eguppmet Unladed in sile tester and appeted for Clearties 1705 - Eguppmet Unladed in sile tester and appeted for Clearties 1705 - Eguppmet Complete for day. 4 test pits Complete). CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS:	113 - arpania	if to fine to the		- 1
CHAS - ready to sturt degree test file JOC - 2 Pite Complete. Juthing Contained ordinance lichies banding. Germa Petro, south committees, 5 god solvertype Can; to 55 god deem Smillaum shill barring Mirec Metal. 200 1230 junch. 1565 - Completed 2 pite. 1 pit contained Nothing 2d pit Contained Land Mire Parts, Londing & price wetal terms 516 - Starb setting up and Clearing test Pet areas for Tornocrow 1680 - Completed Clearing test Pets. 705 - Equipment Unleaded in site testes and departed for Assistes 730 - Agrication Complete for day, 4 test pite Completed. 5 02 HG. VISITORS ON SITE: CHANGES FROM PLANS AND EPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS:	2740 - amue	ANCOMENS , MARKET	egilip mi	- mun
CHAS - ready to sturt degree test file JOC - 2 Pite Complete. Juthing Contained ordinance lichies banding. Germa Petro, south committees, 5 god solvertype Can; to 55 god deem Smillaum shill barring Mirec Metal. 200 1230 junch. 1565 - Completed 2 pite. 1 pit contained Nothing 2d pit Contained Land Mire Parts, Londing & price wetal terms 516 - Starb setting up and Clearing test Pet areas for Tornocrow 1680 - Completed Clearing test Pets. 705 - Equipment Unleaded in site testes and departed for Assistes 730 - Agrication Complete for day, 4 test pite Completed. 5 02 HG. VISITORS ON SITE: CHANGES FROM PLANS AND EPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS:	0146 - Conducted Th	wilgate south, mu	g depend	for Wah Le le, Lacoslity
Gene Complete. Juthy is contained and name Library familiary. Gene Cours, south inmitted, Sold solvertype Can, 055 gol demons will lawny and lawny mile lawny. Smallaws will lawny Mice. Mittel. 200 1230 junch. 1505- Completed of pit. I pit contained literary and port contained lawny mine parts, for lawny of price wetter terms 516- Stand setting up and Clearing test fit areas for tornerson. 1650- Completed Clearing test fet. 1705- Equipment Unlanded in site tester and appeted for Direction Complete for Lay. 4 test fits Completed. 1800- Apriations Complete for Lay. 1800- Apriations Complete for Lay. 1800- Conditions Complete for Lay. 1800- Conditions Complete for Lay. 1800- Conditions of the Completed. 1800- Conditions and important decisions.	JEMEN DO CHE	etune that ful local	cons h de	no alla.
Shouldon shill easing Mice Miles. 1500 [230 junch. 1505 Completed & fit. I fit contained Nothing of per Contained Land Minimparts, banking up and Clearing text fit aleas for Torresson 1505 - Stock Setting up and Clearing text fit aleas for Torresson 1505 - Equipment Unleaded in selection and aparticiple Creatics 1705 - Equipment Unleaded in selection and aparticiple Creatics 1730 - Specific Complete for day. 4 text fits Complete. 15 00 HE. VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS:	1945 - mady to a	tut digging list	Peto 1	
Shouldon shill easing Mice Miles. 1500 [230 junch. 1505 Completed & fit. I fit contained Nothing of per Contained Land Minimparts, banking up and Clearing text fit aleas for Torresson 1505 - Stock Setting up and Clearing text fit aleas for Torresson 1505 - Equipment Unleaded in selection and aparticiple Creatics 1705 - Equipment Unleaded in selection and aparticiple Creatics 1730 - Specific Complete for day. 4 text fits Complete. 15 00 HE. VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS:	12cc - 2 lite Cemp	lete. Lethinicis Conto	and reduce	me debries banding.
Shouldon shill easing Mice Miles. 1500 [230 junch. 1505 Completed & fit. I fit contained Nothing of per Contained Land Minimparts, banking up and Clearing text fit aleas for Torresson 1505 - Stock Setting up and Clearing text fit aleas for Torresson 1505 - Equipment Unleaded in selection and aparticiple Creatics 1705 - Equipment Unleaded in selection and aparticiple Creatics 1730 - Specific Complete for day. 4 text fits Complete. 15 00 HE. VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS: MEATHER CONDITIONS:	Gume Com	. Somehu cannelis.	5 gal Solwer	type (an just god deinn_
1505 - Completed & pit. 1 per contained Nothing 20 per contained land 1 mine parts, bonding + prices metal terms 515 - Stand setting up and Clearing test Pet aleas for tomorrow 1600 - Completed Clearing test Pets 1705 - Equipment Unlanded in site tester and aparticiples. Associates 1730 - Aparations Complete for Lay. 4 test pits Completed. 18 Completed. 18 Completed. 18 Completed. 18 Changes from plans and specifications, and other special orders and important decisions. 18 Changes from plans and specifications, and other special orders and important decisions.	Sundlann while	l laumo, wise thits	ų • · ·	:
SIS- Stand setting up and Clearing test Pet aleas for Tomoscown 180 - Complete Clearing Bet Pets. 1705 - Equipment Unbaded in site tester and departed for Chearters 1730 - Aprilations Complete for day. 4 test fets Completed. 180 - Option of the Completed. 180 - Option of the Completed. 180 - Option of the Completed. 180 - Option of the Completed of the Completed. 180 - Option of the Completed of the Co	200 1230 Remeter		** 13. 0 **	<u> </u>
SIS- Stand setting up and Clearing test Pet aleas for Tomoscown 180 - Complete Clearing Bet Pets. 1705 - Equipment Unbaded in site tester and departed for Chearters 1730 - Aprilations Complete for day. 4 test fets Completed. 180 - Option of the Completed. 180 - Option of the Completed. 180 - Option of the Completed. 180 - Option of the Completed of the Completed. 180 - Option of the Completed of the Co	1500- Completely	peter 1 pet contain	D Nothing of	-pr contained Land
1730 - Equipment Unitedial in sets traits and appeted for day. Hest fits Completed. Live characters boated. See His. VISITORS ON SITE: Long Fisher CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS:	minipart, La	nding of Muses weth	1 temo	
1730 - Equipment Unitedial in sets traits and appeted for day. Hest fits Completed. Live characters boated. See His. VISITORS ON SITE: Long Fisher CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS:	1516 - Started setting	, up and Clearing	text Pet are	as for tomorrow
1730 - Equipment Unitedial in sets traits and appeted for day. Hest fits Completed. Live characters boated. See His. VISITORS ON SITE: Long Fisher CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS:	1650 - Completed Cli	acmy tel Pets .		<i>J.</i>
Live Codenance Located. 6 02 HET. VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. MEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS:	705 - Equipment 6	entraded in sete T	Tailer and	described for Quarters
Live ordinance located. S. 02 HE. VISITORS ON SITE: Lany Filh. WEATHER CONDITIONS: UNIDENTIFY CONDITIONS: WEATHER CONDITIONS: WEA	730 - Aprilion C	complete for day		
Live Conditions: Changes from Plans and Specifications, and other special orders and important decisions. Changes from Plans and Specifications, and other special orders and important decisions.		•		
Live Conditions: Changes from Plans and Specifications, and other special orders and important decisions. Changes from Plans and Specifications, and other special orders and important decisions.	4	test fets complite	0.	
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. WEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS:		•		
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. WEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS:				
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. WEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS:				
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. WEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS:	•			
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. WEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS:				
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. WEATHER CONDITIONS: WEATHER CONDITIONS: WEATHER CONDITIONS:	Live andmance Lorate	d.		
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS. WEATHER CONDITIONS: WEATHER CONDITIONS: WEATHER CONDITIONS:	B er He.			•
WEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS:	VISITORS ON SITE:	CHANG	ES FROM PLANS A	ND SPECIFICATIONS, AND
A A A A A A A A A A A A A A A A A A A	lany twhis	Olnen	SPECIAL UNDERS	AND IMPORTANT DECISIONS.
A A A A A A A A A A A A A A A A A A A				
A A A A A A A A A A A A A A A A A A A				
Louis . look.	WEATHER CONDITIONS:	IMPORT	ANT TELEPHONE	CALLS
	Loudy look	call	Merch bridge	opone.
	-			
PERSONNEL ON SITE DIFFERANCE PALA 11 7				

Z	SHEE	T	/	OF	7
7	H.	#. g			Î
	200				

	+ Louth JAIN PROJECTNO. 508.01	_
ELD ACTIVITY SUBJECT: FIELD INVESTI	pakons	
ESCRIPTION OF DAILY ACTIVITIES AND EVENTS	5 :	
bigo. deported Euasters for off	fere traveler	
710 - diparted affice trader for	site trader.	Do - see
135- Oranie Sate Tlailer, la	adil equipment on truck.	
745 - Conducted tail Octe soluti	, mulder and departed ste trail In Wo	chair
45- 2 Dits Complete. Penter	inelling and departed ste traile for the	TO
O Contain Spreel arms as	lun0	
OS-1215 hund the source	diagin	:
20- Bother runer (telle (conflict	toutilté adchange our Exelibre	_
2 - Brek reall In tradeour	milto alchange our Bretihane of Stone Claime Dentire Machine good, the , sice Mital four suider	2
A Pair Complete O Bue Pa	ter, sice Mital from suider	
B. Mue, Buen suchur	er-manifestation company of the comp	
00 Replacement Bedholon sit	zand taken to becom pad and a good	¥
Meter Illa Bulbunch.	_	
30. Started setting up and elec	ung let litable for next day apre	alia
30 - Completed Cledning test Pit	some hort landeleys. site trader and deported.	<u> </u>
10 - Unbedel equipment, i	gite truter and deported.	:
to - Complete aperations for	ay.	
4 Pilo Completed.		
	•· · ••	
me padwance hoested	••	
		•
- Speak Contride	N: a)	
1-75 MM Suske (incomplete)	CHANGES FROM PLANS AND SPECIFICATIONS AND	
	OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS	
	Well place coment that on some of the	··
	some tring wheat wheel also Metic but I	b.
EATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:	
law to Party Cloudy 90 -	Called rom. pugut-update	
• • •	1	
ain in PA	!	



PROJ	ECT NAME	Coeth Ton	ele Anni	Denof -	Vains	PROJECT NO. 5 (18)	0/
FIEL	D ACTIVITY	SUBJECT: F	ele Anny e	Castion			
DESC	RIPTION OF	DAILY ACTIV	'ITIES AND EVER	ITS:			A
cba	5 Depart	ul ginit	ew for aff	lui trail	u, send F	the stid depart	t for
A")	1	1	1 4 2 2 4 1	حدو شکر صدا	Mus men of the	Such	
580	o - Cond	سقيل لقاد	gate soli	ty Meetin	y and depa	del for Work su	(v
C42	م المديم / - 5 المديوم /	Complete 1. / Elase	Residue	211112 Th	um kiben Utal	del for Work su , fandesig	Newil,
0.50	٠ - S.C.	to C DOM	and dit	eknoars o	etter a obs	+ d8" uneon	mel
	Marie	:4.2" CY	ennier.rocci	in line	faul lessher	Mapen win	ds
	Conto	der Die 1	Contactd	any Fish	a. dans he	1. mothery for	Imarr.
		ence:		•		· • • • • • • • • • • • • • • • • • • •	
162	س لطسينه	ed ligger	ह क्यां. मरा	Contained	2.5" Radietel	letow inpu , ill	w Mild
- ·	Ville	es street	in the wi	site to	look of p	of Continuing	4.2
•	Roceres	by det l	the decide	de abou	don this p	d. the Bace	Marken
	-cings	open and	Lley Well	lahi Cau	of it unk	fled Refrated	76 4.2 au
· · · · ·	Smel	and poor	a ges us	und all	neue the	office Reference	Vare
۲۰ /۱ عدر). <i> lissing</i> 	el text Pa	agging	0 4 4	Fair Prince	+1/2 (day 1)	
74	o - Comp	O COm	ta l Pi	Maria d	District Control	Tices « equinate)	
7 <i>U</i> n	- Charles	0.7.000	y was to do	01 . 77.	under di	etiles (efpended) O eguipment	
140	tende		espectal	Marie ,		- Lysysmes	
ľж	- dlac	resident a	Canaliza	La Dan.	3 fab 6 1 fis as		
			- Simple Color	you may	3 Feb C	mpleted	•=•=•
	•				1 Pit. 01	Present a D	***********
Lis	e ordin	me has	Ω ca		7 7-01 20		•
9 ·/		Rochet Fu	17.0				•••
	ORS ON SI		DRAIN.			ND SPECIFICATIONS, A AND IMPORTANT DECI	
<u> </u>	m Fisher Kiarsha	5/.		O THE	ar soine ondere		
	old Mine		•				
MA A	HER CONDIT	466		IMPOST	ANT TEL SPHONE	CALLS:	
Yea.	to Seather		- living 96	S Contact	ANT TELEPHONE	to contrab	
			•				
PI	PRONNEL	BNSITE . T)	ek.	1.1 ×.1	mind 2		



(FG)		7		ĺ
			7	
8	SHEET 7	Of	/	l

POO ECT NAME	Trade D	5.4.	4 ' 0.241	1 114 44.1	PROJECT NO.	sex. Ai	
FIELD ACTIVITY	Tropic President	my sicpot	4.50	O M M I		-0161	
DESCRIPTION OF	DAILY ACTIVITIES	AND EVENTS:	r (0 1~				
مر مار مرام	tui Cuntero	for Jal.	Lite Trans				
Olec Com	min car pil	LTa. day	i savied	: 2 9 44		*-* ** *	~ · · · · · · · ·
Cost - s.	with the	, تولايون يى . تەرگىمە	MINTE	it waste	ens Color Mario	4. X	
No so - Px	energe tail ga lampletu , Com	The B	ancher Lati	iles Bou	f. shame 15	ion Tem	 .
SMG.	e metalailes		ייון	, , , ,	O 44 7/		<u>-</u> j
093: - FLAT	ing taken for	om Bach h	on to too	h to get	Lifel, Not	They open	
sich	ed up Small	Comprise	c & herp	Tic an	el up.	· · · · · · · · · · · · · · · · · · ·	
							e
الم ح مدا	h competition	? containe	O expend	D(2) Roc	but Marting	Banding B	we.
(F) pu	Contame Nin	mirous 5"	(spended)	Rocher Blo	Wi. Benti	bon Ala	DZ.,_
Bu	nding Rado, a	Lot of met	trup, F.	vec. Com	CAME CAPE	dal North	مدخ
1500 - steet	Clearing test	puts for t	mouri).·			
1700 - Jenn	hed cledning	par Biti	for long	_ کنیمیم	·	- ()	
1710 - Equ	ypiment Unl	secretal by	with in	arena	ne depur	white the	
1130-06	esatimo Co	mplete y	or Way.				
<u>.</u>		•	—)			
	•	عدد ح	ompletel	•	•	-	• ;
							
•	•		• •••	• •	•		•
•							
							
						•	• • • • • • • • • • • • • • • • • • • •
							• •
VISITORS ON SI	TE:		CHANGES FRO	M PLANS AN	D SPECIFICATION	VS, AND DECISIONS	
						J. C. C. C. C. C. C. C. C. C. C. C. C. C.	
EATHER CONDI	TIONS:		IMPORTANT T	ELEPHONE C	ALLS:		
Clear hot	90%			-			
_	-						
PERSONNEL	ON SITE Dickn	mun, Col	e. + Juu	(6)			

8	DATE	5'	11 97
7	NO.		
3	SHEET	,	, Oi

PROJECT NAME TOCHE ATEMINA DERIN	- Nouth VILLAY PROJECT NO. 2008. 61
FIELD ACTIVITY SUBJECT: FIELD JULIES!	patien
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:	
C. Gas Reparted Cumin for	office trailer to call office then bypoild
& for Sittale	·
0720 amme sete trailer l'o	ale equipment takened love people let from
OSC5 - Consented tail got soity	saly of deported who will :
1130 - 3 Pith Completed froth Con	Tained a lot of trancing Haleral_
a lot of your netal.	sale egysment takened lovel people let for sale af dipartiffshich sie Tainer a lot of franciene Malerial. Forme effectet ordinar en elimo
1130 - Junel	
1535 2 pito Completed. Both	pile Contained Clark only.
1730 - Completed Cleaning tox &	les for tomorrow. Blown have on stien the
1745 purped out becom pal	pile londomid Ach only. Die for tomorrow Blownhose on stien the Antraded epurpment in site for Dump states.
Trailer and deposited	for Dumpsteller
18 13 - Upparted Dump station	Boget have for allam chance.
1840 - aperations Complete of	on Day.
the Bace Was Wooking o	nihe pil with 4.2" motors. we
unconceder Sat.	· · · · · · · · · · · · · · · · · · ·
·	10.1
~	Pils Completel.
	· · · · · · · · · · · · · · · · · · ·
VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND
	OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS: Call Tom Puper upder
Cleve Hat 98-100	Call Tom Ruger upon
PERSONNEL ON SITE	. + 1 Moio. 10 .

I	3	SHEE	7	1	OF	1
	MY	NQ.	ĺ	1		77 9
		E W				21
4	à	10.14	Y. (V.)		2	7.4

PROJECT NAME TOOCIE	HRAN Deput-North	x ~MM	PROJECT NO. 588,01
TIELD ACTIVITY SUBJECT:	Tell Mestination	5	
CRIPTION OF DAILY ACT	rivities and events:		:
1625 - Leparter	tucaten for in	butetrailer.	_
reso - armenia	bol-site de	ppul off water	duems, air up lies
on bach s	var, but to	thank for elean	. Cleaner.
2755 - Condivice	tail gate, sof	ity motion an	Licipartifor work sites
started &	Leguin text Pit		Ledepartel for work site
1/30 - Completed	3 text Pits	, 2 containe	O nothing I containe
angle ho	n and Chans	ul bon.	<u> </u>
1200 - departed U	with Plat Time	for Back hime of	und to obscin/cut
tube for	tement Moch	he to be pl	aced in 30 location
1400 - Returned	1 D Work site	. But on the	. decoul backhar
Punoad	out deepn 1	lad into la	rel removed decor
Pal, and	Develid 9 to	unlout. the	in started putting i
3 fort X 6	" littles in :	30 test Pit &	ocations. 2 fort for
ground	level.		
[830 - Complete	d Suttery in	tubes p	resured Washed
backha	e for tun e	m. Willowder	equipment in sile the
845 - departed	plu taile v	with back ho	a princip for office.
vaille.	F Back hore to	Parkay lax	a prihap for office outside security gate
430 - operal	ions complete	You Days.	•
Live openance	- Located.	3	Peto Completed.
1 - 155 MM HE		. :	
" BL HE		:	•
1+ BLU-3 Fuze	•		
T _	•		:
<u>- BLU'-3</u> VISITORS ON SITE:			:
risi i ums um si i e:	<i>"</i> .	OTHER SPECIAL ORDE	S AND SPECIFICATIONS, AND RES AND IMPORTANT DECISIONS.
FATHER CONDITIONS		MPORTANT TELEPHO	NE CALLS:
veather conditions: Legal & Acathark U	mid 100°		
			•
	1		

8 DATE 8 1.2 02. NO. | SHEET / OF

PROJECT NAME Torele ARMY SKART	repth Small Project No. 505, 21
FIELD ACTIVITY SUBJECT: Find IN Sollet	
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS	S:
clos depart molet for PASS + 1	D. (Cole). Git New Bedge Opportson James And High onto Site TRAILER OFFICE
okys appive office Trailer	And then ento Site TRAILER
0715 aprive site rapiler, L	paded quipment
1750. Conducted tail gate S	efety. Meeting
(1816 - departed for work 571-	to stant sata Mixing Concrete fin
MANKEN Post in Soleche	d test Pits,
1630 - Bob was at medical app	countrient. applied tosset 10 to
VOW-100 Reven hadge then ca	recense up dale on Job status -
1100 - arriced work Site,	received up dule on Job status -
1145 - Paul Gary, Finished his	Supraint, he departed Situ
1230 - Cale departed Projec	+ DEMOB BOB CONTINUED TO
POUR CONCRETE, Console	addted explosive Huns flan Rong
personnel to Disperse	off.
1600 - all (30) test pet concute	markers in, Load equipment few
trailer, eftia Concrete, 6	Jecon Water, Stean Cleaner.
162 - depart site Trailenfor de	impotes for track drop off, empty to office trader to l'have steam.
decon Water their ont	o office trader to
1760: armed affectivites	, Buful Web- Claret steams_
Clience for Tuen in a	also which frames. Williadis concrete.
larvalo but outh iquip	ment.
1750! departed office traits	to tum in bestel igupment.
1830. Completed aperation	or olly.
	<u></u>
WEITORS ON SITE	CHANGE CROWN BLANC AND PROPERTY AND
VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.
are train	
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
Clear to Seattered Clauses 1000	IMPORTANT TELEPHONE CALLS: Callet Tom Linguest update.
•	
DEDOCANIEL CALCITE / 4	

APPENDIX C LIST OF ORDHANCE ITEM

LIVE ORDNANCE ITEMS

ITEM	QUANITY
1. 75MM Smoke (partial) 2. 81MM Mortar HE 3. 90MM HE 4. 90MM M313 5. 90MM T91 6. 105MM HE 7. 155MM HE 8. 25 1b. Frag Bomb 9. 2.75° Rocket Warhead 10. 4 1b. Thermite Bomb 11. BLU-3 12. BLU-4 13. 40MM Projectile 14. M42 Grenade 15. M15 Mine 16. 20MM Projectile 17. 30-06 Cartridge 18. TNT Supplemental Charge 20. XM 54 Burster 21. M125 Slap Flare 22. Signal Cartridge 23. Mon-Electric Blasting Cap 24. Unknown Ordnance Item 25. Rocket Propellent 26. Bulk High Explosive 27. BLU-3 Fuse 28. VT Artillery Fuse 29. BLU-26 Fuse 30. MK 93 Base Fuse 31. M582 Fuse 32. M557 Fuse 33. M603 Mine Fuse 34. 5° Rocket Fuse 35. 3.5° Rocket Fuse	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
35. 3.5" Rocket Puse 36. Artillery Base Puse 37. Artillery Puse 38. Puse Booster Cup 39. Puse Adapter Booster Totals: Ordnance Items Rocket Propellent	1 2 20 5 1 192 2 os.
Bulk High Explosive	11 lb. 14 os.

Appendix G



APPENDIX G

regulas of explosives field screening

G.1 INTRODUCTION

G.1.0.1. This appendix presents a summary of the field explosives acrosning activities which were conducted on selected soil samples collected during the RFI field work at TEAD-N. Also included are the results of the explosive reactivity testing conducted on selected samples by the Southwest Research Institute (SwRI) of San Antonio, Texas.

G.1.8.2. All soil samples scheduled to be submitted for explosive reactivity analysis were field screened for the compounds 2,4,6-TNT (trinitrotoluene) and RDX (cyclonite) utilizing methods developed by USATHAMA to detect the presence and quantity of these explosive compounds in a soil medium. The field screening activities were conducted for the purpose of avoiding the commercial shipment of material that could be explosively reactive, as defined in 40 CFR, part 261.23(a) 6.

G.1.0.3. Twenty-six soil samples were submitted for explosive reactivity testing according to the Gap Test and Internal Ignition Test. None of the samples were explosively reactive. A discussion of the methods and testing results as documented by SwRI is included in this appendix.

G2 SCOPE OF ACTIVITIES

G.2.0.1. A total of 26 soil samples selected for explosive reactivity testing were screened for the compounds 2,4,6-TNT and RDX. Of these samples, 16 were collected from test pits excavated at the OB/OD Area (SWMUs 1, 1a, 1b, 1c, 1d), eight were collected from the deep seil boring locations at the OB/OD Area, and two samples were obtained from the AED Demilitarization Test Facility (SWMU 19). The samples were screened according to the USATHAMA methods "Field Method For The Determination of 2,4,6-TNT In Soil" and "Field Method For The Determination Of RDX In Soil", which are included in Appendix D of the project Data Collection Quality Assurance Plan (JMM, 1992).

GA FIELD SCHEENING METHOD SURGARY

G.3.0.1. The field methods used for the sample screening specify a spectrophotometer which can operate at the ultraviolet wavelengths, specifically at 540 nm. The spectrophotometer used for the field screening procedure during the RFI was a Hach DR/2000 spectrophotometer, which has the capability to operate on battery power, but was operated on the available line current for the screening activities.

G.S.1. Field Method For The Determination Of 2.4.6-TNT In Soil

G.3.1.1. Five calibration standards and a blank were prepared by the method of serial dilutions, and their absorbance readings used to construct a calibration curve on the DR/2000 spectrometer. A 20-gram portion of the respective soil sample was weighed into a 4-ounce glass bottle, 100 milliliters (ml) of pure acetone were added, and the bottle capped and shaken for three minutes. After standing for at least five minutes, a 25-ml portion of the extract was filtered through a 0.45 µm Nuclepore filter and into a 25-ml cuvette, and the absorbance of this filtrate measured at 540 nm. About 0.1-0.5 g of sodium sulfite (Na2SO3) and one pellet of potassium hydroxide (KOH) were added to the cuvette, which was capped and shaken for three minutes, and allowed to stand for five minutes. The resulting solution was again filtered through a fresh 0.45 µm filter, and the absorbance obtained again at 540 nm. The initial absorbance reading was doubled and subtracted from the final reading. The resulting absorbance figure was proportional to the TNT concentration in the soil. The certified reporting limit (CRL) for this method is stated as 1.11 µg/g.

G.3.2. Field Method For The Determination of RDX In Soil

G.3.2.1. After setting a calibration curve on the spectrometer with five standards and a blank, a 20-gram subsample of the soil was prepared as with the method for TNT (above). A 10-ml portion of the extract was filtered through a 0.45 µm Nuclepore filter and through an ion exchange resin to remove nitrite and nitrate. This filtrate was then acidified with glacial acetic acid and mixed with zinc dust, forming nitrite. This solution was again filtered through a 0.45 µm filter into a solution of Griess color-forming solution, and allowed to stand for 10-15 minutes. The development of a pinkish to rose color was indicative of the presence of RDX. This solution was then filtered again through a Nuclepore filter into a 25-ml cuvette, and its absorbance measured at 540 nm. The absorbance was converted to soil concentration (in µg/g) based on the previously-determined calibration curve. The CRL for this method has been reported as 1.4 µg/g.

GA SUMMARY OF FIELD SCREENING RESULTS

G.4.0.1. Table G-1 summarizes the concentrations of the explosive compounds 2,4,6-TNT and RDX in the screened soil samples as determined by the previously-described field methods. As shown, none of the soil samples submitted for explosive reactivity testing were analyzed at concentrations which would support spontaneous explosive detonation during shipment.

TABLE G-1

EXPLOSIVE REACTIVITY FIELD SCREENING RESULTS

Sample Designation	2,4,6-TNT (µg/g)	RDX (µg/g)
EP-01-034-4.5'-5'	ND(a)	4.5
EP-01-042-2'-3'	1.15	11.0
EP-01-045-3.5'-4'	ND	3.5
EP-01-056-4.5'-5'	ND	ND(p)
EP-01-082-0-0.5	495	860
EP-01-087-0-1'	2.14	ND
EP-01-089-0-1'	ND	ND
EP-01-091-1'-2'	ND	ND
EP-01-092-0-1'	ND	ND
EP-01-025A-3-3.5	ND	ND
SS-19-002-0-0.2°	ND	ND
SS-19-006-0-0.2°	ND	ND
EP-01-096-1'-2'	ND	ND
EP-01-100-2'-3'	ND	ND
EP-01-104-1'-2'	1.9	ND
EP-01-108-5'-6'	2.4	ND
EP-01-113-6.5'-7'	2.1	ND
EP-01-118-0-3'	ND	18.4
SB-01-001-0-1'	ND	ND
SB-01-002-0-1'	2.7	ND
SB-01-003-0-1'	ND	מא
SB-01-004-0-1'	ND	מא
SB-01-005-0-1'	1.5	1.8
SB-01-006-0-1'	ND	1.8
SB-01-007-0-1'	ND	ND
SB-01-008-0-1'	ND	ND

⁽a) ND in the 2,4,6-TNT column = analyzed as less than the method CRL of 1.11 μ g/g TNT in soil.

⁽b) ND in the RDX column = analyzed as less than the method CRL of 1.4 $\mu g/g$ RDX in soil.

SOUTHWEST RESEARCH INSTITUTE

622C CULEBRA ROAD . POST OFFICE DRAWER 2851C . SAN ANTONIO, TEXAS USA 78228-051C . IS121 684-5**1 . TELEX 244846

Chemistry and Chemical Engineering Division Department of Environmental Engineering

October 27, 1992

James M. Montgomery
Consulting Engineers, Inc.
4525 South Wasatch Blvd., Suite 200
Salt Lake City, UT 84121

Attention:

Mr. David L. Shank, Jr.

Project Manager

Subject:

Laboratory Results for Evaluation of 26 Soil Samples for Explosive Reactivity

JMM Job No. 2942.0110

JMM Contract No. DAAA15-90-0011

SwRI Project No. 01-5132

Dear Mr. Shank:

The evaluation of 26 soil samples was conducted by SwRI for the purpose of determining explosive reactivity. Twenty of the samples were received in our laboratory on August 3, 1992 and six were received on August 17, 1992. The tests which included the Gap Test and the Internal Ignition Test were performed in accordance to procedures specified in "Methods of Evaluating Explosive Reactivity of Explosive-Contaminated Solid Waste Substances," Bureau of Mines, United States Department of the Interior, RI-9217, Report of Investigations, 1988. These tests were developed by the Bureau of Mines to evaluate the explosive reactivity as defined in Title 40, Code of Federal Regulations (CFR), part 261.23 (a)(6) and 7. The Gap Test and Internal Ignition Test are designed to determine sensitivity to shock and thermal stimuli respectively.

In the Gap Test, the criteria for detonation propagation (i.e., the sample gives a positive result) are as follows:

- (a) The sample tube is fragmented along its entire length,
- (b) A hole is punched in the witness plate, and
- (c) A stable propagation velocity greater than 4,900 ft/s (1.5 km/s) is observed.

In the Internal Ignition Test, the criteria for interpretation of a positive result is that either the pipe or at least one of the end caps be fragmented into at least two distinct pieces. Results in which the pipe is merely split or laid open or in which the pipe or caps are distorted to the point at which the caps are blown off are considered to be negative results.



Becolie:

Summaries of results for the Gap Tests and Internal Ignizion Tests for the 26 soil samples are presented in the appendix of this report. In addition, all the field data associated with these tests and photographs showing the hardware used are included.

As shown in the summary of results and associated field data, all of the 26 soil samples evaluated showed negative results for both tests since none met the criteria specified by the Bureau of Mines for a positive result. In summary all of the 26 samples evaluated "passed" the Gap and Internal Ignition Tests and are therefore classified as being non-reactive as far as explosivity is concerned.

Very truly yours,

Oscar Saenz, Jr. Manager

Approved:

Michiel MacNaughton, PhD, P.E.

Director

APPENDIX

INTERNAL IGNITION TESTS

INTERNAL IGNITION TEST

1. Black Powder Charge



2. Assemble Pipe to Top Cap



3. Fill with Soil Sample



4. Assemble Bottom Cap



INTERNAL IGNITION TEST 23-29 SEPTEMBER 1932

		PI	IPE	TOP AND	BOTTON CAPS	OVERALL
SOIL SAMPLE	TEST NO.	SPLIT	FRAGMENTED	FRACIE	ITE DETACHED	RESULT
		_				1.PQ1.00U*
55-1 9-006- 0-2'	1	110	110	NO NO	NC	KEGATIVE
\$\$-1 3- 006-0-2'	2	NO	110	110	NO -	MEGATIVE
EF-01-089-0-1	3	KO	NC	110	110	REGATIVE
EP-01-089-6-1	4	NO	110	NO	NO.	RECATIVE
EP-01-056-4.5-5'	5	NO	110	NC ***	NO TO	MEGATIVE
EP-01-055-4.5-5'	6	NO	110	110	110	MEGATIVE
SB-01-005-0-1'	1	MO	#0	NO	NC	NEGATIVE
SB-01-005-0-1'	8	NO	110	110	110	MEGATIVE .
SB-01-007	. 9	110	XO	110	NO	MEGATIVE
SB- 01 -0 07	10	NO	110	HO	110	MEGATIVE
SE-01-00!	1:	NO	110	NO	110	MEGATIVE
SB-01-001	12	KO	110	NO	110	MEGATIVE
58- 01 -00 2	13	NC	110	NC	110	MEGATIVE
SB-01-002	14	100	110	100	110	MEGATIVE
EP-01-087-0-1'	15	MO	NC	NO.	110	MEGATIVE
EP-01-087-0-1'	16	NO.	110	110	110	HEGATIVE
EP-01-118-0-3'	17	MG	MC	MO	NO	MEGATIVE
EP-01-118-0-3'	18	NO.	MC	NO	110	MEGATIVE
58-01 -006- C-1'	19	NO.	100	100	110	NEGATIVE
58-01-006-0-1	20	MC	110	NO.		MEGATIVE
EP-01-096-1-2'	21	NO	W O	M O	110	HEGATIVE
EP-01-096-1-2'	22	NC	MC OM		110	MEGATIVE
EP-01-104-1-2'	23	110	MC	NC	WO	HEGATIVE
EP-01-104-1-2'	24	KO	110	100	NO.	NEGATIVE
\$5-1 9-0 02-02'	25	NC	NC	MO	100	HESATIVE
\$\$-19 -0 02-02'	26	MO.	NO	110	NO.	MEGATIVE
EP-01-1G8	27	MO	110	110	110	MEGATIVE
EP-01-105	28	MO	NC	WO	WO	MEGATIVE
EP-01-042-2-3'	29	NO	110	110	NO	NECATIVE
EP-01-042-2-3'	30	NO.	110	NO	110	MEGATIVE
EP-01-100-2-3'	31	110	10 0	MO	110	HECATIVE
EF-01-100-2-3'	32	MO	NO	110	100	MEGATIVE
SB-01-004-0-1	33	NO	100	110	110	NEGATIVE
58-01-004-0-1	34	NC	MO	MO	110	NECATIVE
EP-01-113	35	NC	110	HC	110	NEGATIVE
EP-01-113	36	MC	MC	MÔ	100	MEGATIVE
58-01-008	3?	NO	160	MO	NG	HEGATIVE
SB-001-008	38	MO	CM	NO	100	NEGATIVE
EP-01-091-1-2'	39	KO	NO	100	NC	HEGATIVE
E3-01-091-1-2'	40	NO	MC	100	WO	MECATIVE
EP-01-025-3-3.5'	. 41	NC	MC	MC	100	MEGATIVE
EP-01-025-3-3.5'	42	110	110	100	110	MECATIVE
EP-01-082-05'	43	IIO	MO	110	110	MEGATIVE
EP-01-002-05'	44	NO	MO	MO	110	MEGATIVE
EP-01-045-3.5-4'	45	NO.	MO	WC	IIC	HECATIVE
EP-01-045-3.5-4'	46	NO	100	100	MC	MEGATIVE
EP-01-034-4.5-5	47	110	100	NC	MC	MEGATIVE
EP-01-034-4.5-5'	48	NO	MO	W C	MC	MEGATIVE
SB-01-003	49	NO.	100	NO.	110	MEGATIVE

TEST NO	DATE 9-23-92
SOIL SAMPLE NO. <u>55-19-006-</u> 0-2'	TEMPERATURE 85° F
RESULTS	
PIPE SPLIT NO YES	
PIPE FRAGMENTED NO VES	NO. OF PIECES
TOP CAP	
DETACHED FROM PIPE NO	
FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	
DETACHED FROM PIPE NO FRAGMENTED NO YES	YE\$
FRAGMENTED NO YES	NO. OF PIECES
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL JOE Zach	
ADDITIONAL COMMENTS:	

TEST NO	DATE 9-23-92 TEMPERATURE 84 F
RESULTS	
PIPE SPLIT NO 'YES	
PIPE FRAGMENTED NO YES	NO. OF PIECES
TOP CAP	
DETACHED FROM PIPE NO	
FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	
DETACHED FROM PIPE NO	YE8
FRAGMENTED NO YES	NO. OF PIECES
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL TOE, ZACH	

ADDITIONAL COMMENTS:

TEST NO		
RESULTS		
PIPE SPLIT NO	YES	NO. OF PIECES
PIPE FRAGMENTED NO	YES	NO. OF PIECES
TOP CAP	•	•
DETACHED FROM PIPE FRAGMENTED NO	NO	YES
FRAGMENTED NO	YES	NO. OF PIECES
BOTTOM CAP		
DETACHED FROM PIPE FRAGMENTED NO	NO	YES
FRAGMENTED NO	YES	NO. OF PIECES
OVERALL RESULT POSITIVE		NEGATIVE
TEST PERSONNEL TOE	Zach	
ADDITIONAL COMMENTS:		

INTERNAL IGNITION TEST PRODUCT 81-5122-801

TEST NO	
RESULTS	
PIPE SPLIT NO 'YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
TOP CAP	
DETACHED FROM PIPE NO FRAGMENTED NO YES	YES
FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	
DETACHED FROM PIPE NO FRAGMENTED NO YES	YES
FRAGMENTED NO YES	NO. OF PIECES
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL JOE Zach	L
ADDITIONAL COMMENTS:	

TEST NO	DAT	9-24-92
SOIL SAMPLE NO. EP-01-056		
RESULTS		
PIPE SPLIT NO	ES LEN	TH OF SPLIT
PIPE FRAGMENTED NO Y		
TOP CAP		. •
DETACHED FROM PIPE NO YE	YES.	·
FRAGMENTED NO Y	ES NO.	OF PIECES
BOTTOM CAP		
DETACHED FROM PIPE NO YE		
FRAGMENTED NO YI	ES NO.	OF PIECES
OVERALL RESULT POSITIVE_	NEG	ATIVE
TEST PERSONNEL	Zach	
ADDITIONAL COMMENTS.		

INTERNAL IDETTION TEST PROJECT 01-6132-001

TEST NO	DATE 9-24-92
SOIL SAMPLE NO. EP-01-056 4.5-5	
RESULTS	
PIPE SPLIT NO YES YES YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
TOP CAP	. ,
DETACHED FROM PIPE NO FRAGMENTED NO YES	YES
FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	
DETACHED FROM PIPE NO	YES
FRAGMENTED NO YES	NO. OF PIECES
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL JOE 2ach	
ADDITIONAL COMMENTS:	

TEST NO SOIL SAMPLE NO. SB-01-005-0-1	DATE 9-24-92 TEMPERATURE 85
RESULTS	
PIPE SPLIT NO 'YES	LENGTH OF SPLIT
PIPE SPLIT NO YES YES YES	NO. OF PIECES
TOP CAP	
DETACHED FROM PIPE NO	YES
DETACHED FROM PIPE NO FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	
DETACHED FROM PIPE NO	YES
FRAGMENTED NO VES	NO. OF PIECES
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL	
ADDITIONAL COMMENTS:	

TEST NO	DATE 9-24-92
SOIL SAMPLE NO. 58-01-005-0-/	TEMPERATURE 85
RESULTS	
PIPE SPLIT NO YES YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO VES	NO. OF PIECES
TOP CAP	
DETACHED FROM PIPE NO FRAGMENTED NO YES	YE8
FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	
DETACHED FROM PIPE NO FRAGMENTED NO YES	YES
FRAGMENTED NO YES	NO. OF PIECES
OVERALL RESULT POSITIVE	
TEST PERSONNEL JOE, ZACH	
ADDITIONAL COMMENTS:	

TEST NO. 09	DATE 9-24-92
SOIL SAMPLE NO. SB-DI-007	TEMPERATURE85
RESULTS	
PIPE SPLIT NO / YES	LENGTH OF SPLIT
PIPE SPLIT NO 'YES PIPE FRAGMENTED NO YES	NO. OF PIECES
TOP CAP	
DETACHED FROM PIPE NO FRAGMENTED NO YES	YES
FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	•
DETACUED EDOM DIDE NO	VEe
DETACHED FROM PIPE NO FRAGMENTED NO YES	1E3
PRAGMENTED NOT TES	NO. OF PIECES
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL JOE, ZACH	
ADDITIONAL COMMENTS:	

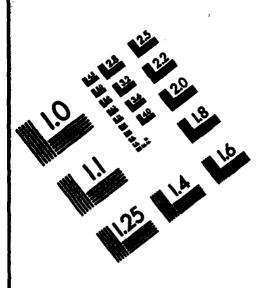
ENTERNIAL IGNITION TEST

	TEST NO	DATE <u>9-24-92</u> TEMPERATURE <u>85</u>
		I GHI SIM I UNG
	RESULTS	•
•	PIPE SPLIT NOYES PIPE FRAGMENTED NOYES	LENGTH OF SPLIT
	PIPE FRAGMENTED NO YES	NO. OF PIECES
	TOP CAP	•
	DETACHED FROM PIPE NO	
	FRAGMENTED NO YES	NO. OF PIECES
	BOTTOM CAP	
	DETACHED FROM PIPE NO	
	FRAGMENTED NO YES	NO. OF PIECES
	OVERALL RESULT POSITIVE	NEGATIVE
	TEST PERSONNEL JOE, Zach	
	ADDITIONAL COMMENTS:	

TEST NO	DATE 9-24-92
SOIL SAMPLE NO. SB -DI- DOI	
RESULTS	
PIPE SPLIT NO YES PIPE FRAGMENTED NO YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
TOP CAP	
DETACHED FROM PIPE NO	
FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	
DETACHED FROM PIPE NO	YES
FRAGMENTED NO YES	NO. OF PIECES
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL	
ADDITIONAL COMMENTS:	

SOIL SAMPLE NO. SB-DI-O	<u> </u>	DATE 9-24-92 TEMPERATURE 89
RESULTS		
PIPE SPLIT NO	'YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO	YE8	NO. OF PIECES
TOP CAP		
DETACHED FROM PIPE	NO.	YES
FRAGMENTED NO	YES	NO. OF PIECES
BOTTOM CAP		
DETACHED FROM PIPE		
FRAGMENTED NO	YES	NO. OF PIECES
OVERALL RESULT POSITIV	/E	NEGATIVE
TEST PERSONNEL	ZAC	.h
ADDITIONAL COMMENTS:		

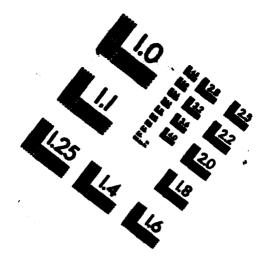
TOOELE ARMY DEPORT-HORTH AREA SUSPECTED RECEASES SHINUS AD-A282 574 9/15 UOLUME 2 APPRENDICES A - J REVISION(U) MONTGOMERY WATSON WALNUT CREEK CA DEC 93 XA-USAEC UNCLASSIFIED DAAA15-90-D-0011 NL

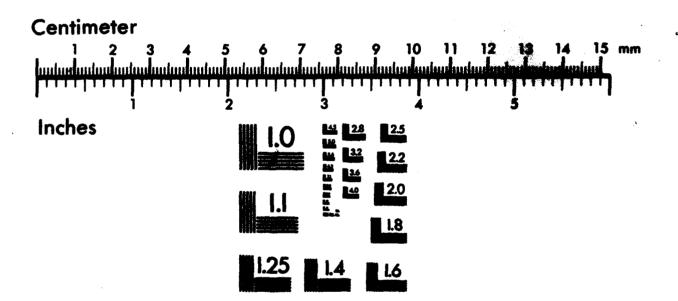


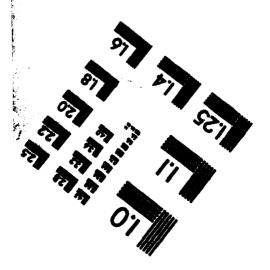


Association for information and image Managemen

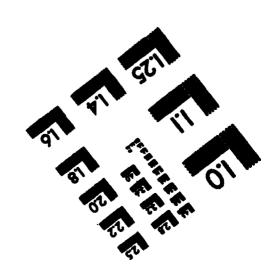
1100 Wayne Avenue, Suite 1100 Silver Spring, Maryland 20910 301/587-8202







MANUFACTURED TO AIIM STANDARDS
BY APPLIED IMAGE, INC.



PROJECT 01-5132-001

TEST NO	DATE 9-24-92 TEMPERATURE 89			
RESULTS				
PIPE SPLIT NO 'YES PIPE FRAGMENTED NO YES	LENGTH OF SPLIT			
PIPE FRAGMENTED NO YES	NO. OF PIECES			
TOP CAP				
DETACHED FROM PIPE NO	YES			
FRAGMENTED NO YES	NO. OF PIECES			
BOTTOM CAP				
DETACHED FROM PIPE NO FRAGMENTED NO YES	YES			
FRAGMENTED NO VES	NO. OF PIECES			
OVERALL RESULT POSITIVE	NEGATIVE			
TEST PERSONNEL JOE JAC	h			
ADDITIONAL COMMENTS.	•			

TEST NO		DATE 9-24-92 TEMPERATURE 89	
RESULTS			
PIPE SPLIT NO	YES	LENGTH OF SPLIT	
PIPE FRAGMENTED NO	YES	NO. OF PIECES	
TOP CAP	PIPE NO	•	
DETACHED FROM	PIPE NO	YES	
FRAGMENTED NO	YES	NO. OF PIECES	
BOTTOM CAP			
DETACHED FROM F	PIPE NO.	YES NO. OF PIECES	
FRAGMENTED NO	YES	NO. OF PIECES	
OVERALL RESULT F	POSITIVE	NEGATIVE	
TEST PERSONNEL	JOE, ZAR	<u>h</u>	

ADDITIONAL COMMENTS:

	0-95-92			
TEST NO	DATE 9-25-92			
SOIL SAMPLE NO. <u>EP-01-037</u> -	o-1' TEMPERATURE 83			
RESULTS				
PIPE SPLIT NO YE	S LENGTH OF SPLIT			
PIPE FRAGMENTED NO YE	S NO. OF PIECES			
TOP CAP				
DETACHED FROM PIPE NO	YE8			
FRAGMENTED NO YE	S NO. OF PIECES			
BOTTOM CAP .				
DETACHED FROM PIPE NO	YES			
FRAGMENTED NO YE	S NO. OF PIECES			
OVERALL RESULT POSITIVE	NEGATIVE			
TEST PERSONNEL JOE Zach				
ADDITIONAL COMMENTS:				

TEST NO	DATE 9-25-92
SOIL SAMPLE NO. <u>EP-01-067-</u> 0-/	TEMPERATURE 84
RESULTS	
PIPE SPLIT NO YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
TOP CAP	
DETACHED FROM PIPE NO	YE8
FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	
DETACHED FROM PIPE NO	YE8
FRAGHENTED NO YES	NO. OF PIECES
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL	
ADDITIONAL COMMENTS:	

TEST NO	ativa ta su di Sul. Lista	ATE 9-25	-42
SOIL SAMPLE NO. <u>EP-01-1/8-1</u>	0-3′ т	EMPERATURE	84
RESULTS			
PIPE SPLIT NO VY	E8 L	ENGTH OF	
PIPE FRAGMENTED NO	E8 N	O. OF PIECES	
TOP CAP	•		
DETACHED FROM PIPE N	0 <u>V</u> Y	E8	•
FRAGMENTED NO Y	ES N	O. OF PIECES	
BOTTOM CAP			
DETACHED FROM PIPE N	0 V	ES	
FRACHENTED NO Y	E8 N	D. OF PIECES	
OVERALL RESULT POSITIVE_	N	EGATIVE V	
TEST PERSONNEL	ZARA		

ADDITIONAL COMMENTS:

TEST NO	DATE 9-25-92 TEMPERATURE 86
RESULTS	
PIPE SPLIT NO YES YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
TOP CAP	
DETACHED FROM PIPE NO	YES
FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	
DETACHED FROM PIPE NO	YES
FRAGMENTED NO YES	NO. OF PIECES
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL	h
ADDITIONAL COMMENTS:	

March Callege

TEST NO. 19 SOIL SAMPLE NO. 58-01-006-0-/	DATE 9-25-92 TEMPERATURE 90			
RESULTS				
PIPE SPLIT NO YES PIPE FRAGMENTED NO YES	LENGTH OF SPLIT			
PIPE FRAGMENTED NO YES	NO. OF PIECES			
TOP CAP				
DETACHED FROM PIPE NO	YES			
FRAGMENTED NO YES	NO. OF PIECES			
BOTTOM CAP				
DETACHED FROM PIPE NO	YES			
FRAGMENTED NO YES	NO. OF PIECES			
OVERALL RESULT POSITIVE	NEGATIVE			
TEST PERSONNEL				
ADDITIONAL COMMENTS:				

TEST NO. 20 SOIL SAMPLE NO. 5A-01-006-0-1'	DATE 9-25-92 TEMPERATURE 91			
RESULTS				
PIPE SPLIT NO YES YES YES	LENGTH OF SPLIT			
PIPE FRAGMENTED NO YES	NO. OF PIECES			
TOP CAP				
DETACHED FROM PIPE NO	YE8			
FRAGMENTED NO YES	NO. OF PIECES			
BOTTOM CAP				
DETACHED FROM PIPE NO	YE8			
FRAGMENTED NOYES	NO. OF PIECES			
OVERALL RESULT POSITIVE	NEGATIVE			
TEST PERSONNEL	och			
ADDITIONAL COMMENTS:				

TEST NO. 2 1 SOIL SAMPLE NO. EP-01-096-1-2'	DATE 9-25-92 TEMPERATURE 92
RESULTS	
PIPE SPLIT NO YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
TOP CAP	
DETACHED FROM PIPE NO	YES
FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	•
DETACHED FROM PIPE NO	YES
FRAGMENTED NO YES	NO. OF PIECES
OVERALL RESULT POSITIVE	
TEST PERSONNEL	

ADDITIONAL COMMENTS:

TEST NO	DATE 9-25-92	
SOIL SAMPLE NO. <u>EP-01-09</u> 6-1-2"		
RESULTS		
PIPE SPLIT NO YES	LENGTH OF SPLIT	
PIPE FRAGMENTED NO YES	NO. OF PIECES	
TOP CAP		
DETACHED FROM PIPE NO	YES	
FRAGMENTED NO YES	NO. OF PIECES	
BOTTOM CAP		
DETACHED FROM PIPE NO	YES	
FRAGMENTED NO YES	NO. OF PIECES	
OVERALL RESULT POSITIVE	NEGATIVE	
TEST PERSONNEL		
ADDITIONAL COMMENTS:		

TEST NO. 23		
SOIL SAMPLE NO. <u>EP-01-104</u> 1-2'	TEMPERATURE 43	
RESULTS		
PIPE SPLIT NO YES YES	LENGTH OF SPLIT	
PIPE FRAGMENTED NO YES	NO. OF PIECES	
TOP CAP		
DETACHED FROM PIPE NO	YES	
FRAGMENTED NO YES	NO. OF PIECES	
BOTTOM CAP		
DETACHED FROM PIPE NO		
FRAGMENTED NO YES	NO. OF PIECES	
OVERALL RESULT POSITIVE	NEGATIVE	
TEST PERSONNEL		
ADDITIONAL COMMENTS.		

		DATE 9-25-92
SOIL SAMPLE NO. <u>EP-O(-)(</u>	<u>24</u> /-11	TEMPERATURE 93
RESULTS		
PIPE SPLIT NO	'YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO	YES	NO. OF PIECES
TOP CAP		
DETACHED FROM PIPE	NO	YES
FRAGMENTED NO	YES	NO. OF PIECES
BOTTOM CAP	_	
DETACHED FROM PIPE		
FRAGMENTED NO	YES	NO. OF PIECES
OVERALL RESULT POSITIV	/E	NEGATIVE
TEST PERSONNEL	E, ZAC	h
ADDITIONAL COMMENTS:		

PROJECT 01-5132-001

TEST NO. 25		DATE 9-25-92
SOIL SAMPLE NO. 55-19-00	02 0-,2'	TEMPERATURE 92
The state of the s		
RESULTS		•
PIPE SPLIT NO	YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO	YES	NO. OF PIECES
TOP CAP		
DETACHED FROM PIPE	NO	YES
FRAGMENTED NO V		
BOTTOM CAP		
DETACHED FROM PIPE		
FRAGMENTED NO	YES	NO. OF PIECES
OVERALL RESULT POSITIVE		NEGATIVE
TEST PERSONNEL		
	7	
ADDITIONAL COMMENTS:		

TEST NO 26 SOIL SAMPLE NO. <u>\$5-19-002</u> 0	DATE 9-25-92 2' TEMPERATURE 92	
RESULTS		
PIPE SPLIT NO YES	LENGTH OF SPLIT	
PIPE FRAGMENTED NO VES	NO. OF PIECES	
TOP CAP	,	
DETACHED FROM PIPE NO	YES	
FRAGMENTED NO YES	NO. OF PIECES	
BOTTOM CAP		
DETACHED FROM PIPE NO YES_	YES	
FRAGMENTED NO YES	NO. OF PIECES	
OVERALL RESULT POSITIVE	NEGATIVE	
TEST PERSONNEL JOE, Zach		

ADDITIONAL COMMENTS:

TEST NO. 27	DATE 9-28-92
	TEMPERATURE 82
RESULTS	
·	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
TOP CAP	
DETACHED FROM PIPE NO_	YES
FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	
DETACHED FROM PIPE NO_	YES
FRAGMENTED NO YES	NO. OF PIECES
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL	2 ach
ADDITIONAL COMMENTS:	

TEST NO. 28 SOIL SAMPLE NO. EP-01-108	DATE 9-29-92	
SOIL SAMPLE NO. DE DE 120	i Gra-Gran i Gra	
RESULTS		
PIPE SPLIT NO YES	LENGTH OF SPLIT	
PIPE FRAGMENTED NO YES YES	NO. OF PIECES	
TOP CAP		
DETACHED FROM PIPE NO		
FRAGMENTED NO YES	NO. OF PIECES	
BOTTOM CAP		
DETACHED FROM PIPE NO		
FRAGMENTED NO YES	NO. OF PIECES	
OVERALL RESULT POSITIVE	NEGATIVE	
TEST PERSONNEL JOE, ZACh		

ADDITIONAL COMMENTS:

Water Visited W

TEST NO. 29	DATE 9-28-92	
SOIL SAMPLE NO. EP-01-042 2-3	TEMPERATURE 84	
RESULTS		
PIPE SPLIT NO 'YES		
PIPE FRAGMENTED NO	NO. OF PIECES	
TOP CAP		
DETACHED FROM PIPE NO	YES	
FRAGMENTED NO YES	NO. OF PIECES	
BOTTOM CAP		
DETACHED FROM PIPE NO		
FRAGMENTED NO YES	NO. OF PIECES	
OVERALL RESULT POSITIVE	NEGATIVE	
TEST PERSONNEL JOE ZACH		
ADDITIONAL COMMENTS:		

TEST NO. 30	·	DATE 9-28-92
SOIL SAMPLE NO. EP-01-04	12 A-3'	TEMPERATURE 85
RESULTS		
		LENGTH OF SPLIT
PIPE FRAGMENTED NO	YE8	NO. OF PIECES
TOP CAP		
DETACHED FROM PIPE	NO	YES NO. OF PIECES
FRAGMENTED NO	YE8	NO. OF PIECES
BOTTOM CAP		•
DETACHED FROM PIPE	NO_	YES NO. OF PIECES
FRAGMENTED NO	YE8	NO. OF PIECES
OVERALL RESULT POSITIV	E	NEGATIVE
TEST PERSONNEL	TOE, 2	ach
ADDITIONAL COMMENTS.		

TEST NO. 3/	DATE 9-28-92
SOIL SAMPLE NO. <u>EA-01-100</u> 2-3'	TEMPERATURE 87
RESULTS	
PIPE SPLIT NO YES	
PIPE FRAGMENTED NO YES	NO. OF PIECES
TOP CAP	
DETACHED FROM PIPE NO	YES
FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	
DETACHED FROM PIPE NO	YES
DETACHED FROM PIPE NO	NO. OF PIECES
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL	·Y
ADDITIONAL COMMENTS.	

TEST NO. 32	DATE 9-28-92
SOIL SAMPLE NO. <u>EP-0/-100</u> 2-3	TEMPERATURE 90
RESULTS	
PIPE SPLIT NO YES	
PIPE FRAGMENTED NO YES	NO. OF PIECES
TOP CAP	· •
DETACHED FROM PIPE NO	YES
FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	
DETACHED FROM PIPE NO FRAGMENTED NO YES	YES
FRAGMENTED NO YES	NO. OF PIECES
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL	eh
ADDITIONAL COMMENTS.	

PROJECT 01-5132-001

TEST NO. 33	DATE 9-28-92
SOIL SAMPLE NO. SB-01-004 0-1	TEMPERATURE 88
RESULTS	
PIPE SPLIT NO_V YES	
PIPE FRAGMENTED NO VES	NO. OF PIECES
TOP CAP	•
DETACHED FROM PIPE NO	
FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	•
DETACHED FROM PIPE NO	
FRAGMENTED NOYES	NO. OF PIECES
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL	ch
ADDITIONAL COMMENTS:	

TEST NO. 34 SOIL SAMPLE NO. 58-01-00	- 4 0-1	DATE 9-28-92 TEMPERATURE 89
RESULTS		
·		LENGTH OF SPLIT
PIPE FRAGMENTED NO	YE8	NO. OF PIECES
TOP CAP		
DETACHED FROM PIPE		
FRAGMENTED NO	YES	NO. OF PIECES
BOTTOM CAP		
DETACHED FROM PIPE		
FRAGMENTED NO	YES	NO. OF PIECES
OVERALL RESULT POSITIVE		NEGATIVE
TEST PERSONNEL	E, ZAR	h
ADDITIONAL COMMENTS:	•	

PARTIES TOUT TOUT TOUT

TEST NO. 35	
SOIL SAMPLE NO. EP-01-1/3	TEMPERATURE 58
RESULTS	
PIPE SPLIT NO YES PIPE FRAGMENTED NO YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
TOP CAP	
DETACHED FROM PIPE NO FRAGMENTED NO YES	YES
FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	
DETACHED FROM PIPE NO	
FRAGMENTED NO YES	NO. OF PIECES
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL	ach
ADDITIONAL COMMENTS:	

TEST NO	- 3_	DATE 9-28-92 TEMPERATURE 89
RESULTS		
PIPE SPLIT NO	YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO.	YES	NO. OF PIECES
TOP CAP		
DETACHED FROM PIPE		
FRAGMENTED NO	YES	NO. OF PIECES
BOTTOM CAP	,	
DETACHED FROM PIPE		
FRAGMENTED NO	YE8	NO. OF PIECES
OVERALL RESULT POSITIV	/E	NEGATIVE
TEST PERSONNEL	E, ZA	ch
ADDITIONAL COMMENTS:		

TEST NO. 37 SOIL SAMPLE NO. 48-01-0		DATE 9-28-92 TEMPERATURE 90
RESULTS		
PIPE SPLIT NO	YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO	YES	NO. OF PIECES
TOP CAP		
DETACHED FROM PIPE	NO	YES
FRAGMENTED NO	YES	NO. OF PIECES
BOTTOM CAP		
DETACHED FROM PIPE	NO_	YES
FRAGMENTED NO	YES	NO. OF PIECES
OVERALL RESULT POSITIV	Ę	NEGATIVE
TEST PERSONNEL	OE, Z1	ach
ADDITIONAL COMMENTS:		

TEST NO. 38 SOIL SAMPLE NO. 58-01-00		DATE 9-28-92 TEMPERATURE 90
RESULTS		
PIPE SPLIT NO	YES	LENGTH OF SPLIT
	YES	NO. C. PIECES
TOP CAP		
DETACHED FROM PIPE	NO	YES
FRAGMENTED NO	YES	NO. OF PIECES
BOTTOM CAP		
DETACHED FROM PIPE	NO	YE8
FRAGMENTED NO	YES	NO. OF PIECES
OVERALL RESULT POSITIV	/E	NEGATIVE
TEST PERSONNEL	30E, Z	ach
ADDITIONAL COMMENTS:		

THE SECTION SEPT

TEST NO. 39	DATE 9-28-92
SOIL SAMPLE NO. EA-DI-091 1-2'	TEMPERATURE 90
RESULTS	
PIPE SPLIT NO YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO_1 YES	NO. OF PIECES
TOP CAP	
DETACHED FROM PIPE NO	YES
FRAGMENTED NO YES	NO. OF PIECES
BOTTOM CAP	•
DETACHED FROM PIPE NO FRAGMENTED NO YES	YES
FRAGMENTED NO YES	NO. OF PIECES
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL	<u>rh</u>
ADDITIONAL COMMENTS:	

SOIL SAMPLE NO. EP-01-04	<u>-</u> 21 1-2'	DATE 9-28-92 TEMPERATURE 89
RESULTS		
PIPE SPLIT NO	:YE8	LENGTH OF SPLIT
PIPE FRAGMENTED NO	YES	NO. OF PIECES
TOP CAP	_	
DETACHED FROM PIPE	NO_	YE8
FRAGMENTED NO	YE8	NO. OF PIECES
BOTTOM CAP		
DETACHED FROM PIPE	NO	YES NO. OF PIECES
FRAGMENTED NO	YES	NO. OF PIECES
OVERALL RESULT POSITIV	Έ	NEGATIVE
TEST PERSONNEL	DE, ZA	oh
ADDITIONAL COMMENTS:		

THE STATE OF

TEST NO.	_	DATE 9-29-92
SOIL SAMPLE NO. EP-DI-DE	25 3-3,5'	TEMPERATURE 8/
RESULTS		
PIPE SPLIT NO PIPE FRAGMENTED NO	YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO	YES	NO. OF PIECES
TOP CAP		,
DETACHED FROM PIPE		
FRAGMENTED NO	YES	NO. OF PIECES
BOTTOM CAP	,	
DETACHED FROM PIPE	NO_I	YES
FRAGMENTED NO	YES	YES
OVERALL RESULT POSITIVE	_	NEGATIVE /
OVERALL RESULT POSITIVE		WEGY11AF T
TEST PERSONNEL	0E, ZA	ch
		-
ADDITIONAL COMMENTS:		

TEST NO. 42		DATE 9-29-92	,
SOIL SAMPLE NO. EPOI-DE	<u>15</u> 3-3.5	TEMPERATURE 8/	
RESULTS			
		LENGTH OF SPLIT	
PIPE FRAGMENTED NO	YES	NO. OF PIECES	
TOP CAP	_		
DETACHED FROM PIPE	NO_	YES NO. OF PIECES	
FRAGMENTED NO	YES	NO. OF PIECES	
BOTTOM CAP			
DETACHED FROM PIPE	NO	YES NO. OF PIECES	
FRAGMENTED NO	YES	NO. OF PIECES	
OVERALL RESULT POSITIV			(
TEST PERSONNEL	JOE, 2	ach	
ADDITIONAL COMMENTS:			

TEST NO. 43	· · · · · · · · · · · · · · · · · · ·	DATE 9-29-92
SOIL SAMPLE NO. FP-DI-O		
		
RESULTS		
PIPE SPLIT NO		
PIPE FRAGMENTED NO	YES	NO. OF PIECES
TOP CAP		•
DETACHED FROM PIPE	NO	YES
FRAGMENTED NO	YES	NO. OF PIECES
BOTTOM CAP		
DETACHED FROM PIPE	NO_/	YES
FRAGMENTED NO	YES	NO. OF PIECES
	_	
OVERALL RESULT POSITIVE	E	NEGALIAE
TEST PERSONNEL	DE ZAR	h
	,	
ADDITIONAL COMMENTS:		

TEST NO. 44 SOIL SAMPLE NO. EP-01-0	-	DATE 9-29-92
SOIL SAMPLE NO. EP-01-0	82 0,5	TEMPERATURE 84
RESULTS		
PIPE SPLIT NO	'YE\$	NO. OF PIECES
PIPE FRAGHENTED NO	YE8	NO. OF PIECES
TOP CAP		•
DETACHED FROM PIPE	NO	YES
FRAGMENTED NO	YE8	NO. OF PIECES
BOTTOM CAP		
DETACHED FROM PIPE		——————————————————————————————————————
FRAGMENTED NO	YE8	NO. OF PIECES
OVERALL RESULT POSITIV	/E	NEGATIVE
TEST PERSONNEL	JOE . 7	ach
ADDITIONAL COMMENTS:		

MANAGE OF STREET

TEST NO. 45	<u>.</u>	DATE 9-29-92
SOIL SAMPLE NO. EP-01-0	15 35-4"	TEMPERATURE 87
RESULTS		
PIPE SPLIT NO	'YE8	LENGTH OF SPLIT
PIPE FRAGMENTED NO V	YES	LENGTH OF SPLIT
TOP CAP		
DETACHED FROM PIPE	NO	YES
FRAGMENTED NO	YES	NO. OF PIECES
BOTTOM CAP		•
DETACHED FROM PIPE FRAGMENTED NO	NO	YES
FRAGMENTED NO	YES	NO. OF PIECES
OVERALL RESULT POSITIVE	Ē	NEGATIVE
TEST PERSONNEL	DOE, ZA	ch
ADDITIONAL COMMENTS.		

TEST NO. 46	_	DATE 9-29-92 4 TEMPERATURE 89
SOIL SAMPLE NO. EP-DI-	045 35-	4 TEMPERATURE 89
RESULTS		
PIPE SPLIT NO	'YE8	LENGTH OF SPLIT
PIPE FRAGMENTED NO	YES	.NO. OF PIECES
TOP CAP	,	•
DETACHED FROM PIPE	NO_	YES NO. OF PIECES
FRAGMENTED NOV	YES	NO. OF PIECES
BOTTOM CAP	./	
DETACHED FROM PIPE	NO	YES NO. OF PIECES
FRAGMENTED NO	YES	NO. OF PIECES
OVERALL RESULT POSITIV	/E	NEGATIVE
TEST PERSONNEL		
ADDITIONAL COMMENTS:	•	

TEST NO. 47	DATE 9-29-92	
TEST NO. 47 SOIL SAMPLE NO. EP-01-034 4.5-6	TEMPERATURE 89	
RESULTS		
PIPE SPLIT NO YES PIPE FRAGMENTED NO YES	LENGTH OF SPLIT	
PIPE FRAGMENTED NO YES	NO. OF PIECES	
TOP CAP	•	
DETACHED FROM PIPE NO		
FRAGMENTED NO YES	NO. OF PIECES	
BOTTOM CAP		
DETACHED FROM PIPE NO	YES	
FRAGMENTED NO YES	NO. OF PIECES	
OVERALL RESULT POSITIVE	NEGATIVE	
TEST PERSONNEL TOE, Zach		
ADDITIONAL COMMENTS:		

TEST NO. 48	_	DATE 9-29-92 TEMPERATURE 89
SOIL SAMPLE NO. EP-01-0	34 45-5	TEMPERATURE 89
RESULTS	·	
PIPE SPLIT NO	YE8	LENGTH OF SPLIT
PIPE FRAGMENTED NO	YES	NO. OF PIECES
TOP CAP		
DETACHED FROM PIPE	NO	YES NO. OF PIECES
FRAGMENTED NO	YE8	NO. OF PIECES
BOTTOM CAP		
DETACHED FROM PIPE	NO	YES NO. OF PIECES
FRAGMENTED NO	YE8	NO. OF PIECES
OVERALL RESULT POSITIV	E	NEGATIVE
TEST PERSONNEL	Joe, 2	ach
ADDITIONAL COMMENTS.		

TEST NO. 49		DATE 9-29-92
SOIL SAMPLE NO. SB-D1-D	23	TEMPERATURE 90
RESULTS		
PIPE SPLIT NO	'YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO	YES	NO. OF PIECES
TOP CAP		
DETACHED FROM PIPE	NO	YES
FRAGMENTED NO	YES	NO. OF PIECES
BOTTOM CAP	,	
DETACHED FROM PIPE FRAGMENTED NO.	NO	YES
FRAGMENTED NO.	YE8	NO. OF PIECES
OVERALL RESULT POSITIV	E	NEGATIVE
TEST PERSONNEL	JOE, ZA	·h
	•	

ADDITIONAL COMMENTS:

TEST NO. <u>50</u> SOIL SAMPLE NO. <u>58-01-00</u> 3	_	
RESULTS		
PIPE SPLIT NO YES	LENGTH OF SPLIT	
PIPE FRAGMENTED NO YES	NO. OF PIECES	
TOP CAP		
DETACHED FROM PIPE NO		
FRAGMENTED NO VES	NO. OF PIECES	
BOTTOM CAP		
DETACHED FROM PIPE NO		
FRAGMENTED NO YES	NO. OF PIECES	
OVERALL RESULT POSITIVE	NEGATIVE	
TEST PERSONNEL		

ADDITIONAL COMMENTS:

PHONEST GT-8138-001

TEST NO	DATE 9-29-92	
SOIL SAMPLE NO. EP-01-092 0-1	TEMPERATURE 92	
•		
RESULTS		
PIPE SPLIT NO YES		
PIPE FRAGMENTED NO YES	NO. OF PIECES	
TOP CAP	•	
DETACHED FROM PIPE NO	YES	
FRAGMENTED NO YES	NO. OF PIECES	
BOTTOM CAP	•	
DETACHED FROM PIPE NO	YES	
FRAGMENTED NO YES	NO. OF PIECES	
OVERALL RESULT POSITIVE	NEGATIVE	
TEST PERSONNEL		
ADDITIONAL COMMENTS:		

TEST NO		DATE 9-29-92
SOIL SAMPLE NO. EP-OI - OF	2 0-1	TEMPERATURE 92
RESULTS		
		LENGTH OF SPLIT
PIPE FRAGMENTED NO	YES	NO. OF PIECES
TOP CAP		•
DETACHED FROM PIPE	NO_V	YES
FRAGMENTED NO	YES	NO. OF PIECES
BOTTOM CAP		
DETACHED FROM PIPE	NO/	YES
FRAGMENTED NO	YES	NO. OF PIECES
OVERALL RESULT POSITIVE		NEGATIVE
TEST PERSONNEL	JOE 24	eh
ADDITIONAL COMMENTS:	-	

GAP TESTS

GAP TEST

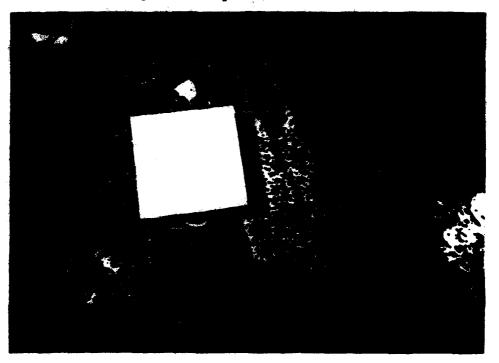
1. Fill Pipe with Soil and Install Velocity Probe



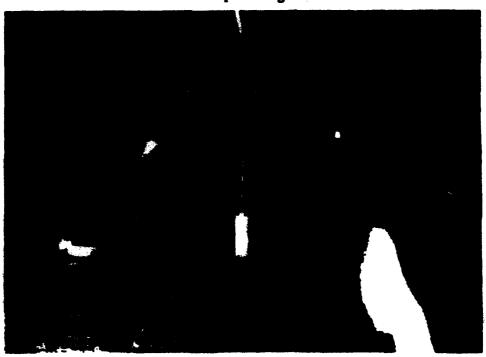
2. Install Detonator



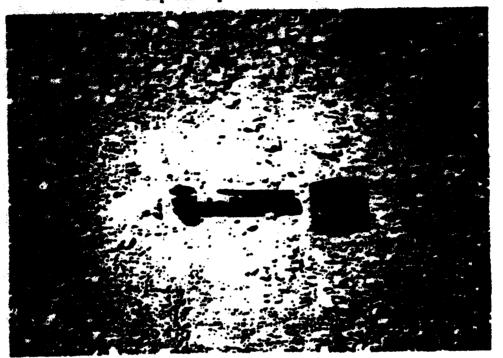
3. Top View of Pipe with Witness Plate



4. Wire-Up at Range



5. Gap Test Pipe after Detonation



			TPE	MOLE IN	VELOCITY	VELOCITY	OVERALL
SOIL SAMPLE	TEST NO.	SPLIT	FRAGMENTED	WITHESS PLATE	(FT/8)	TREAC	RESULT
\$\$-1 9-006-0 -2'	53	NO	80	MO	MD.	100	HEGATIVE
\$\$-19-006-6-2"	54	100	100	100	6231	BECAYING	MEGATIVE
\$\$-19-006-0-2"	55	110	100	#0	5696	BECAYING	HEGATIVE
EP-01-089-0-1'	56	80	MO	NO	5200	DECAYING	necative
EP-01-089-0-1'	57	110	MO -	NO	5578	BECAYING	MEGATIVE
EP-01-056-4.5-5'	55	_ 100	100 -	#0	4165	BECATING	HEGATIVE
EP-01-656-4.5-5'	59	- 100	HO	NC	2920	BECAYING	Kegat: Ye
\$8-01- 005-0- 1'	60	110	10	NC	4983	BECAYING	megative
\$8-01- 005-0- 1'	61	110	MO	100	5682	BECAYING	nesative
SB-01-007	6 2	NO	100	K)	3337	Becaying	NEGATIVE
58-01-0C7	63	NO	MC	NC	3788	DECAYING	negative
58- 61-301	64	110	HO	NO	3551	DECAYING	HEGATIYE
SB-01-001	85	100	NC	110	4735	DECAYING	NEGATIVE
58- 91 -0 02	56	110	10	MO	2271	BECAYING	NEGATIVE
58-01-002	67	110	110	NO	5510	DECAYING	MEGATIVE
EP-01-087-0-1'	ee	110	NO	100	5787	BECAYING	MEZATIVE
EP-01-067-0-1'	69	110	110	110	3626	BECAYING	HEGATIVE
EP-01-116-0-3'	70	110	NC	110	110	HC	MEGATIVE
EP-01-118-0-3'	71	110	MO	110	7215	BECAYING	MEGATIVE
EP-01-116-0-3'	72	NO.	110	110	7576	BECAYING	HEGATIVE
\$8-01-006-0-1'	73	100	110	110	3106	DECAYING	MEGATIVE
58- C1 -006- 0-1	74	100	110	WO	6729	BECAYING	HEGATIVE
E=-01-096-1-2'	75	100	100	WO	3235	BECAYING	MEGATIVE
EP-01-096-1-2'	76	110	#0	100	2673	BECAYING	MEGATIVE
EP-01-104-1-2'	77	100	110	IIC	4583	BECAYING	REGATIVE
EP-01-104-1-2'	78	110	110	WO	63 13	DECAYING	MEGATIVE
\$\$-19-002-0-2	79	100	110	NC	ND .	DECAYING	HEGATIYE
E2-01-198	80	NO	100	NO	1786	DECAYING DECAYING	MEGATIVE MEGATIVE
EP-01-108	81	. 10	HO	110	4117	DECAYING	MEGATIVE
EP-01-042-2-2'	82	110	110	100 100	2140 2817	DECATING	MEGATIVE
EP-01-042-2-3' EP-01-100-2-3'	6 2	NO	110	#U #0	1864	BECATING	MEGATIVE
EP-01-100-2-3'	85	NC NO	NC '	#C	100-	10 peru 1 1 ma	MEGATIVE
EP-0!-180-2-3	86	110	#C	#C		10	MEGATIVE
CO 00 100 0 01						10	NEGATIVE
EP-01-100-2-3'	87 88	NG .	NC NC	WU WO	3739	BECAYING	MESATIVE
\$8-01-CO4-0-1'	85	100	10	WC	6313	BECAYING	HEGATIVE
SB-01-004-0-1	90	10	10	10	4719	BECAYING	NEGATIVE
EP-01-113	\$ 1	100	100	NC	6313	BECAY ING	HEGATIVE
EP-01-113	92	10	MC	100	2794	BECAYING	MEGATIVE
S8-01-008	93		**	10	9629	DECAYING	MERATIVE
58-01-606	93 94		100	10	6764	SECAYING	MEDATIVE
EP-01-091-1-2'	95	10	86	**	3024	BECAY ING	MEMITIVE
EP-01-091-1-2'	96	10	**	100	1890	MECATING	MEDATIVE
EP-01-025-3-3.5'	97	10	10	***	2326	DECAYING	MEMTIVE
EP-01-025-3-3.5'	98	10	**	iii	5492	BECAYOUR	MENTIVE
EP-01-002-0-0.5	99	10	10	10	5662	SECATEME	MENTIVE
EP-01-062-0-0.5'	106	10	110,	iii	2481	DECAYING	MEATIVE
EP-01-045-3.5-4"	101	10	110	10	8934	DECAYENG	MEMTINE
3. 3. 540 010 Y		***					

EP-61-645-3.5-4'	192		NO :		80	3994	DECAYING	MERATIVE	
EP-01-034-4.5-5'	103	WG.			10	3532	Becaying	MEBATIVE	
£8-61-634-4.5-5'	104	40	#6		BC	8725	BECAYING	MEGATIVE	
19-61-063-6-1	105	an a	110	5.2	100	4773	DECAYING	HEBATIVE T	
	196	20	86		***	4621	BECAYING	MEGATIVE	
88-01-003-0-1		***	***			5732	BECAYING	MEGATIVE	
E9-01-892-0-1'	107		***		100	6667	DECAYING	MEGATIVE	
EP-01-092-0-1'	108		111			***			

NOTE: SOIL SAMPLE SE-19-002-0-2' (TEST 79), NOT ENOUGH SOIL FOR TWO TESTS NO= NO BATA, MALPONETION OF VELOCITY PROCE

TEST	NO	<i>53</i>	·	DATE/	URE 93	
SOIL	SAMPLE	NO. 55-19-	006-0-21	TEMPERAT	URE 93	
RESUL	.TS	/	•		•	
PIPE	SPLIT	NO	YES	LENGTH O	F SPLIT	
HOLE	PUNCHE) IN WITNES	S PLATE NO.	YES_	SIZE	
VELO	CITY:	PEAK	FPS			
		STABLE	DECAY!	ING	INCREASING_	
OVERA	ALL RESI	JLT POSIT	IVE	NEGATIVE		
TEST	PERSONI	HELG	og Elya	do, 3.	chen	-
ADDIT	rional (COMMENTS:	c an vector	-; ishisF ,	DELAY IN CAR	o caused
	. ب	· · wes	3N 0 - 503	pe.		

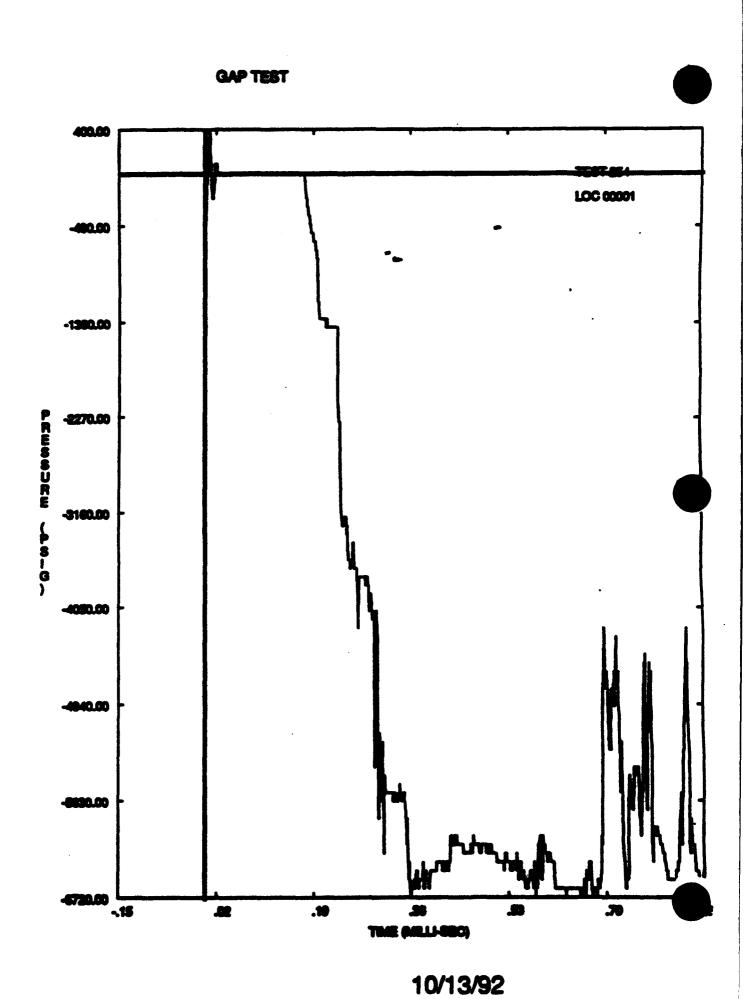
TEST NO	DATE 10 /13 10 =
SOIL SAMPLE NO. 55-19-006-0-2'	TEMPERATURE 92
RESULTS	•
PIPE SPLIT NO YES	LENGTH OF SPLIT
PIPE SPLIT NO YES PIPE FRAGMENTED NO YES	NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 6231 FPS	
STABLE DECAYI	NG / INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL Gray Ely	ils, Zaihen
ADDITIONAL CONVENTA	

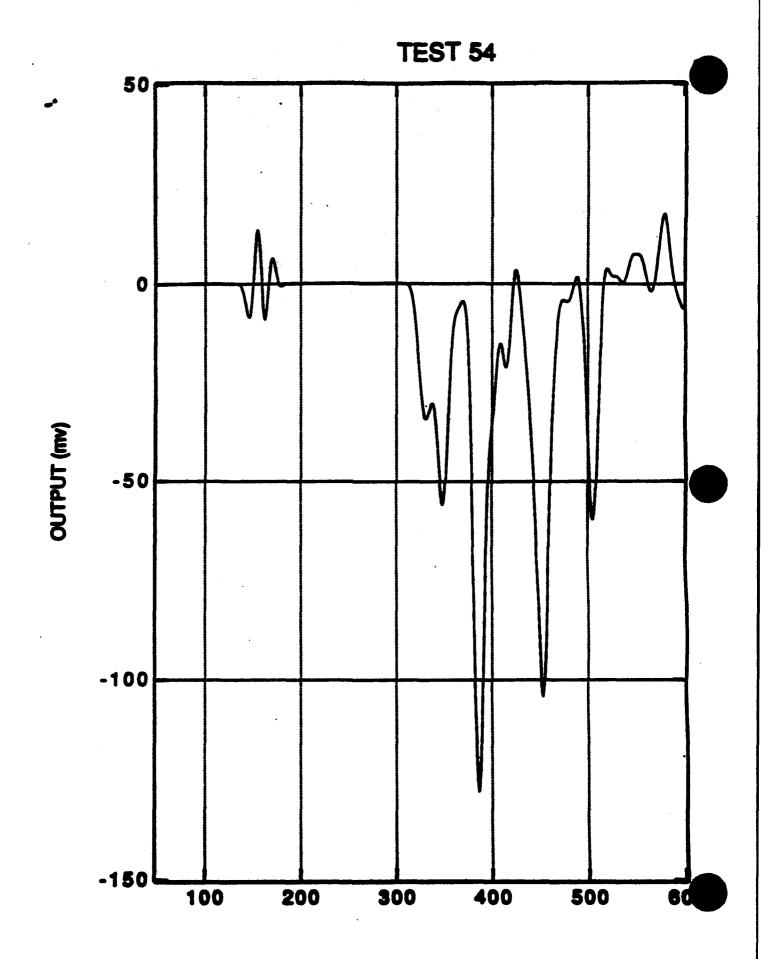


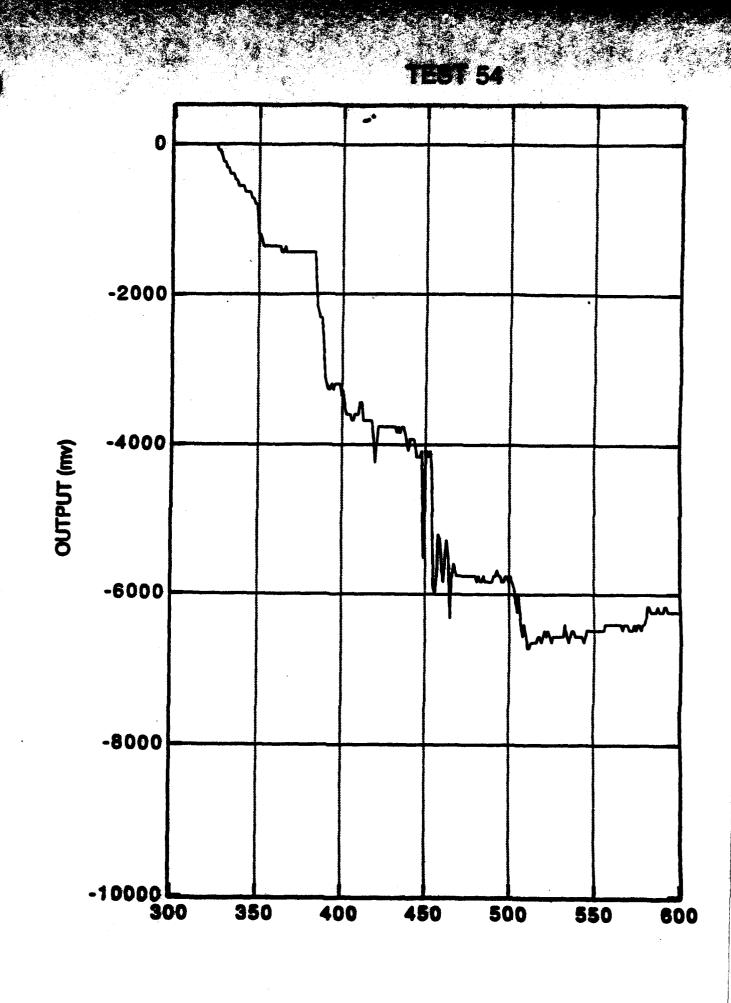
TEST NO 254

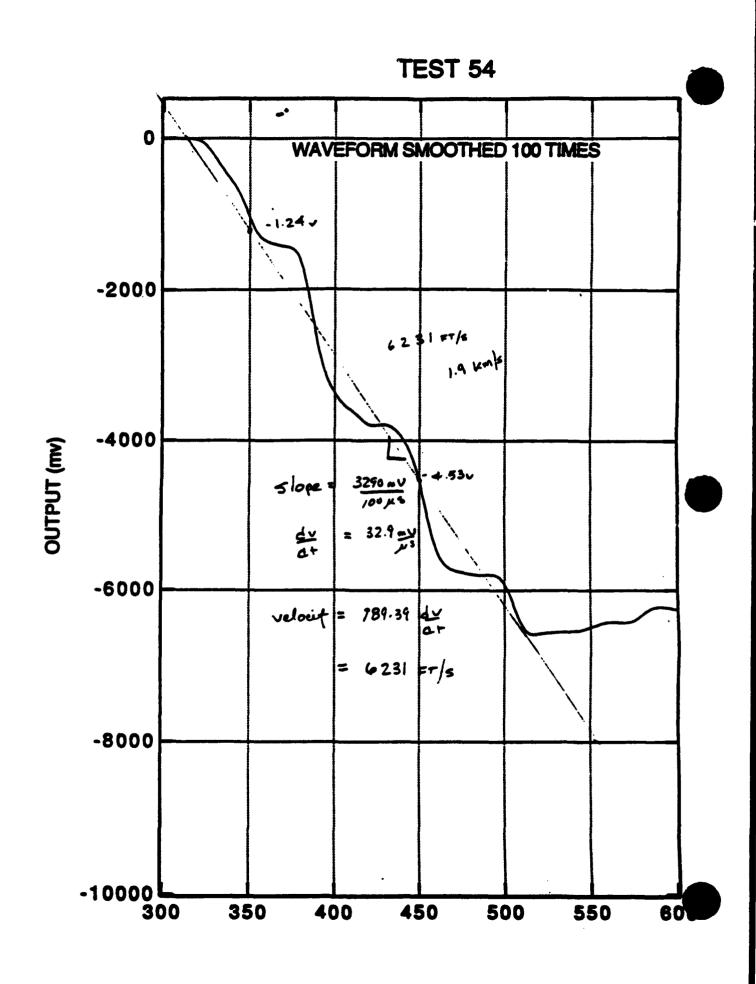
THE PARTY OF STREET

	-							
TRANSDUCER.	8/M	LOCATION	TAPE CEAN	(A) CDT	(181) (181)	CAIN	FULL SCALE VOLTAGE	
2	1	1	1	1.0	0.1008+04	1.0	1.0	
COMMENTS	B:					•		
							•	
							•	

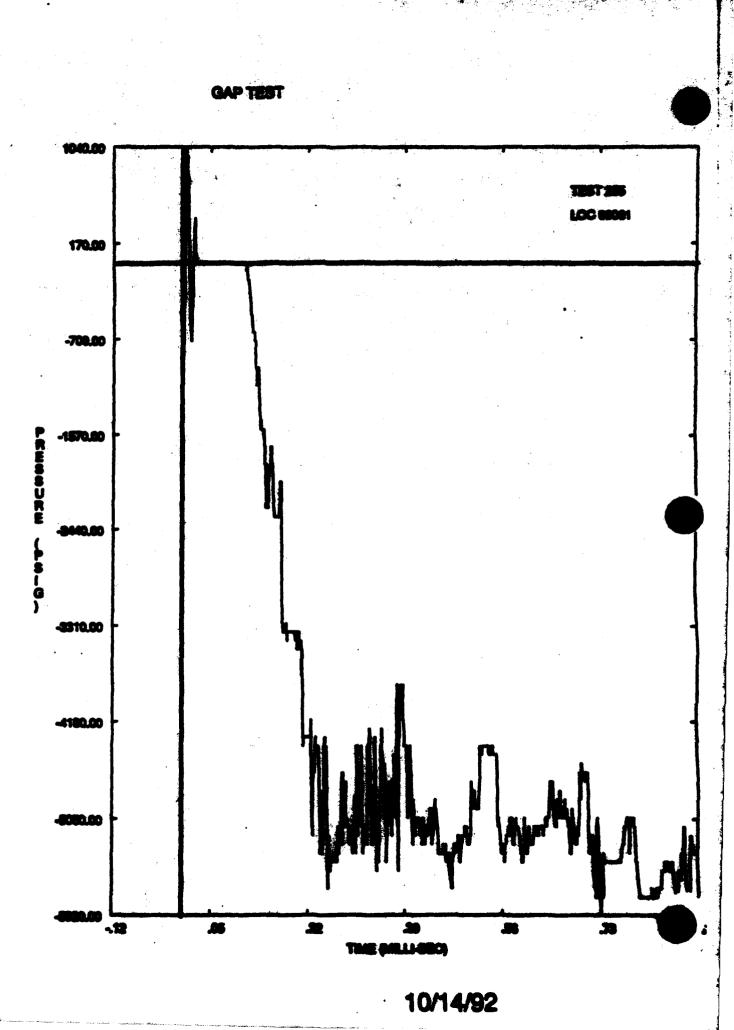


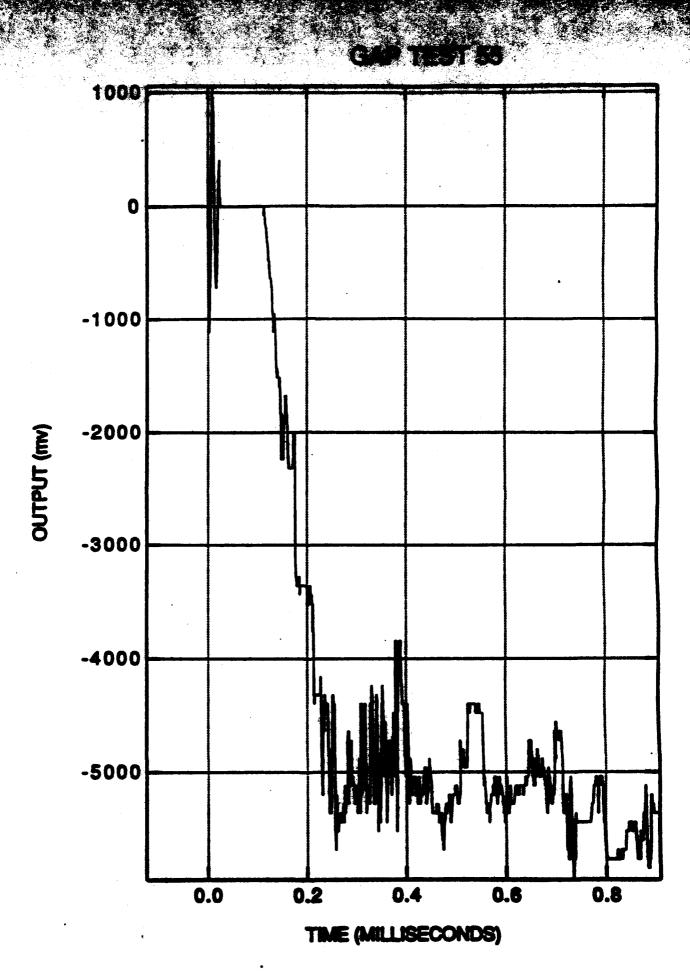


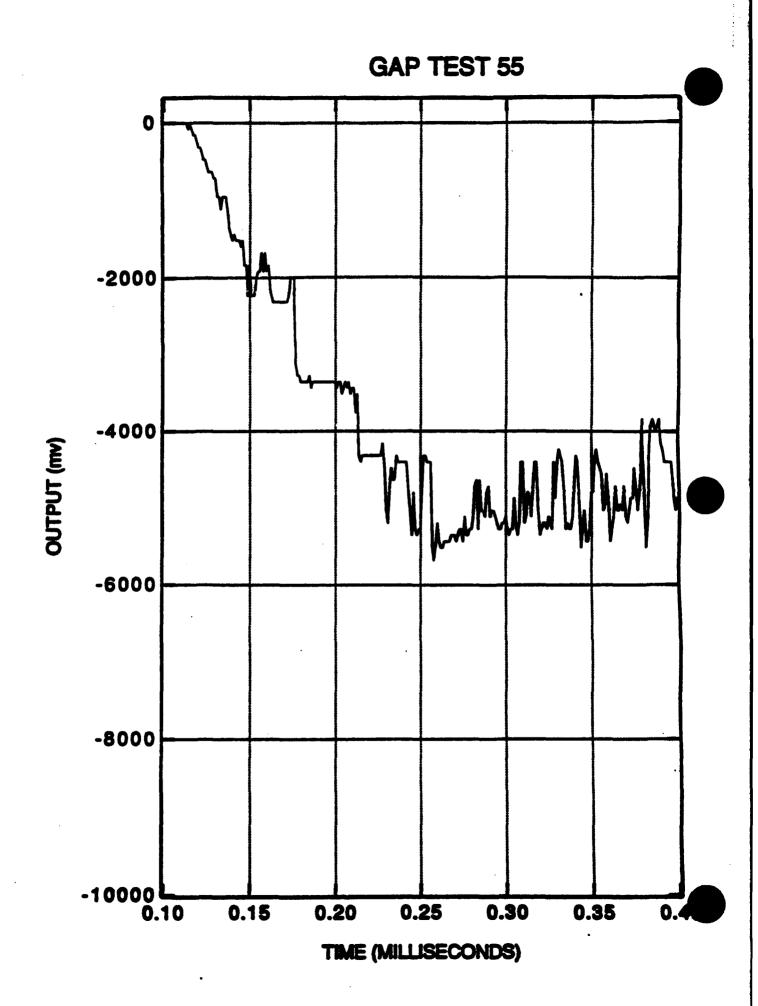


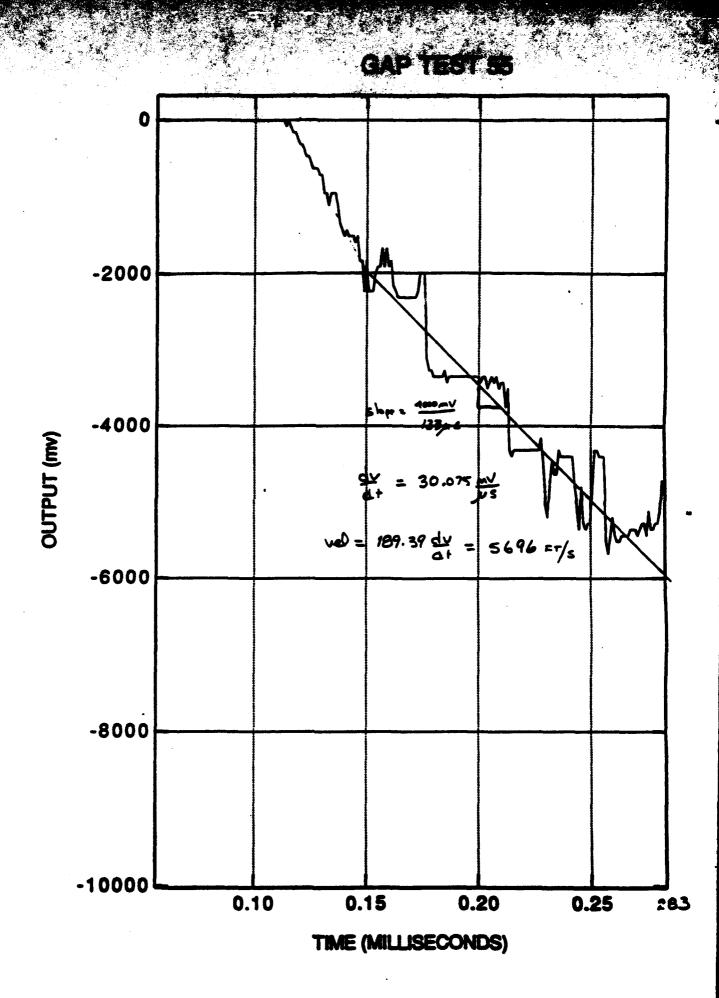


	55	DATE	
SOIL SAMPLE NO.	SS-19-000-0-2	TEMPERATURE	72
RESULTS			
PIPE SPLIT	NO YES	LENGTH OF SPL	T
PIPE FRAGMENTED	NO YES	NO. OF PIECES	
HOLE PUNCHED IN	WITNESS PLATE NO_	YES 8	SIZE
VELOCITY: PE	ak <u>5696</u> FPS Able Decayii	INCRE	ASING
OVERALL RESULT	POSITIVE	NEGATIVE	·
TEST PERSONNEL	Gray Elaundo	, Zachay	
ADDITIONAL COM	FNTS:		







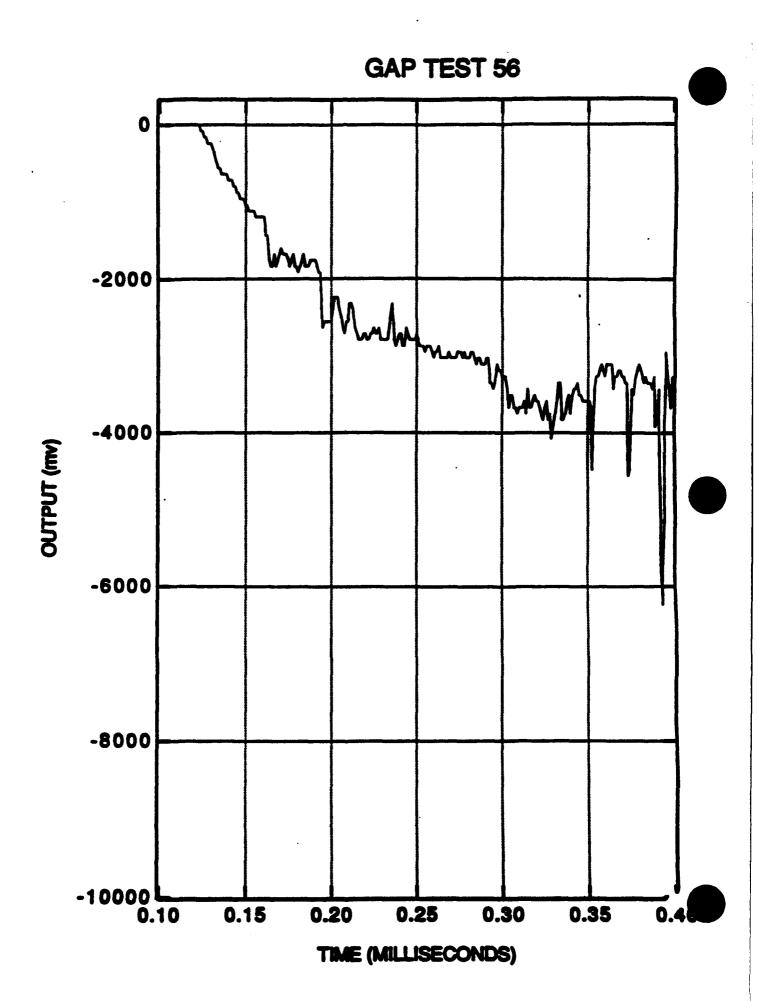


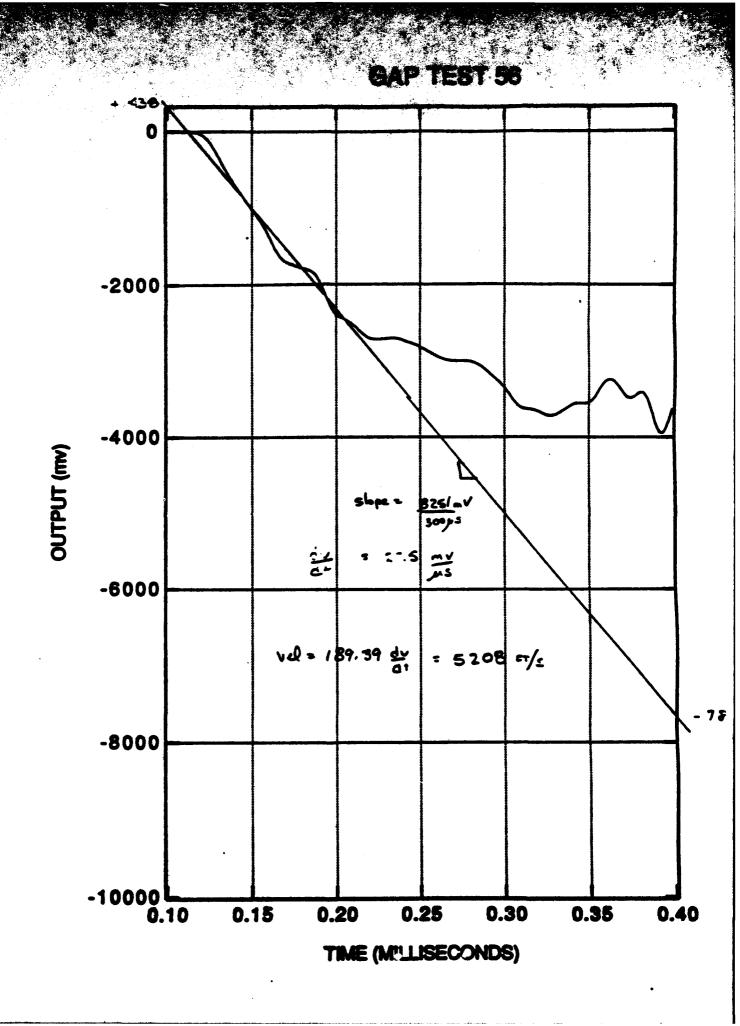
TEST NO	DATE 10 /14 103
TEST NO	TEMPERATURE 73
RESULTS	•
PIPE SPLIT NO YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO	/_ YES SIZE
VELOCITY: PEAK 5206 FPS	
STABLE DECAYIN	G INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL GRAN, ELIPANAD	3. chem
ADDITIONAL COMMENTS:	

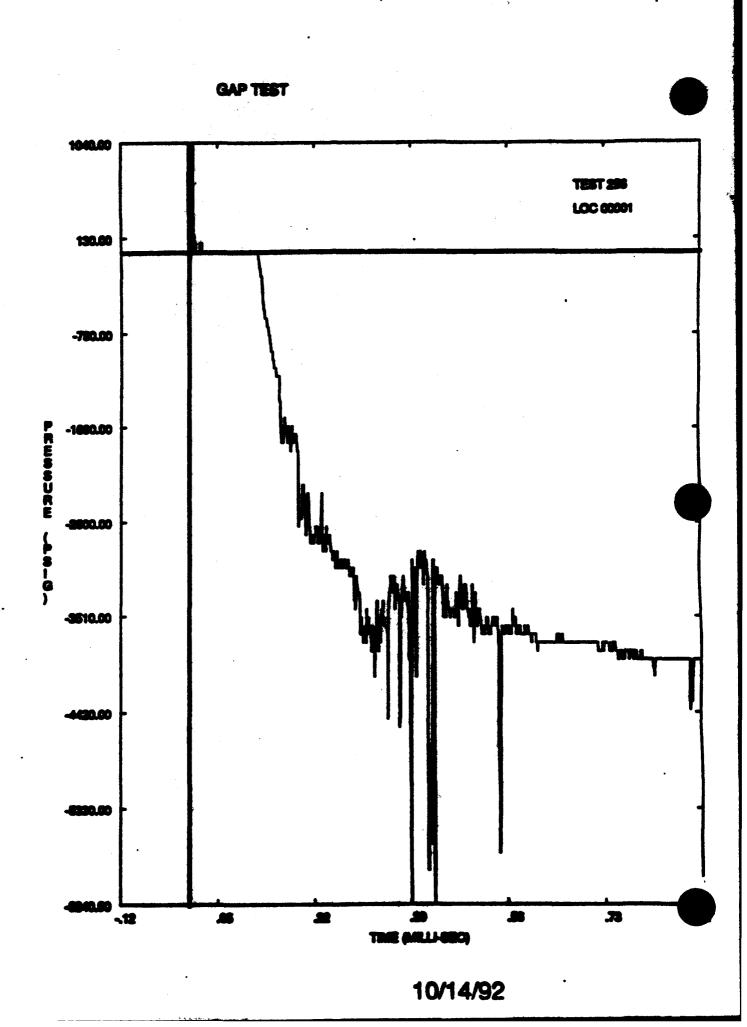
TEST 110 256

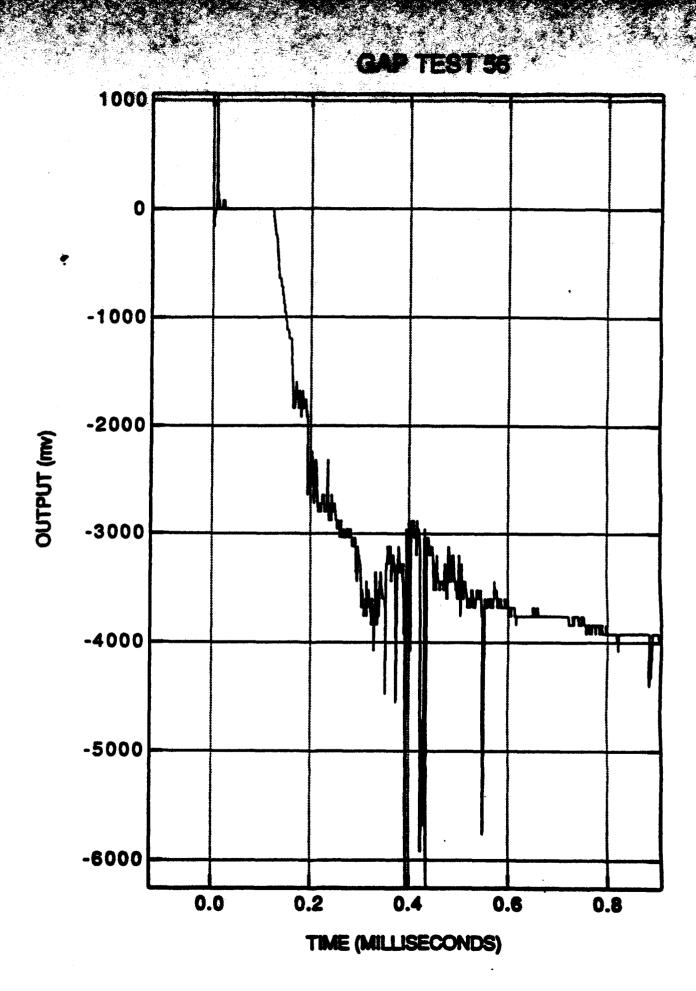
INSTRUMENTATION:

				~	CRT TA			
Pausducer	S/W	LOCATION	TAPE CEAS	(A) CAT	(PSI)		ACTIVES ACTIVES	
2	1	1	1	1.0	0.1002+04	1.0	1.0	
COMMENTS	3 :							
						- 1	•	
								







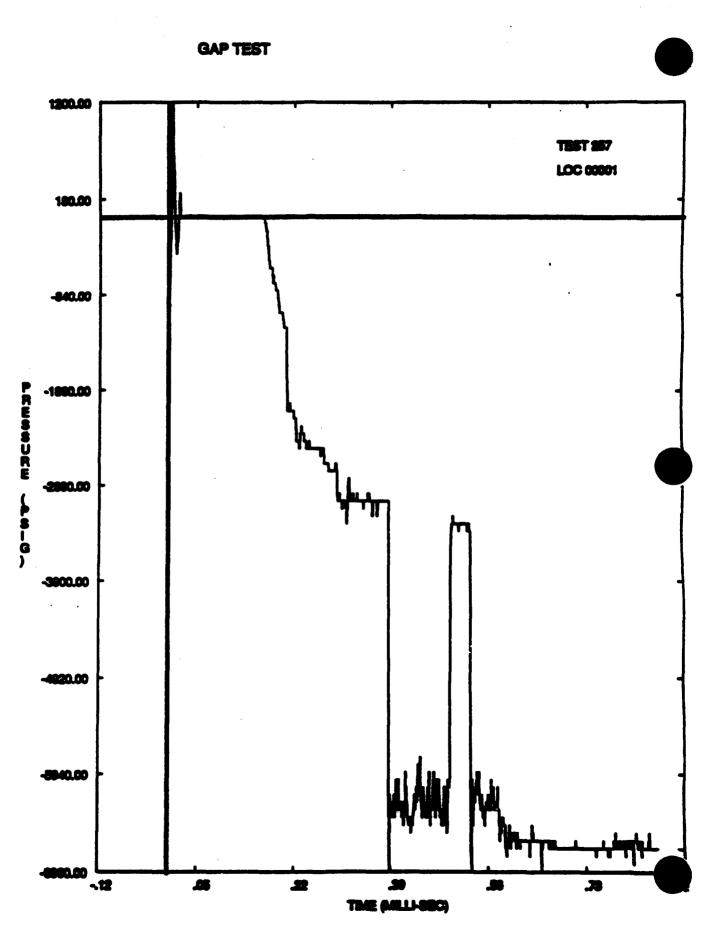


TEST NO	DATE 10/14/92
SOIL SAMPLE NO. EP-01-089-0-1	TEMPERATURE 80
RESULTS	
PIPE SPLIT NO YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO VES	NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 5178 FPS	
STABLE DECAYII	NG INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL GRAY, ELIZANDO	, Zachary
ADDITIONAL COMMENTS:	•

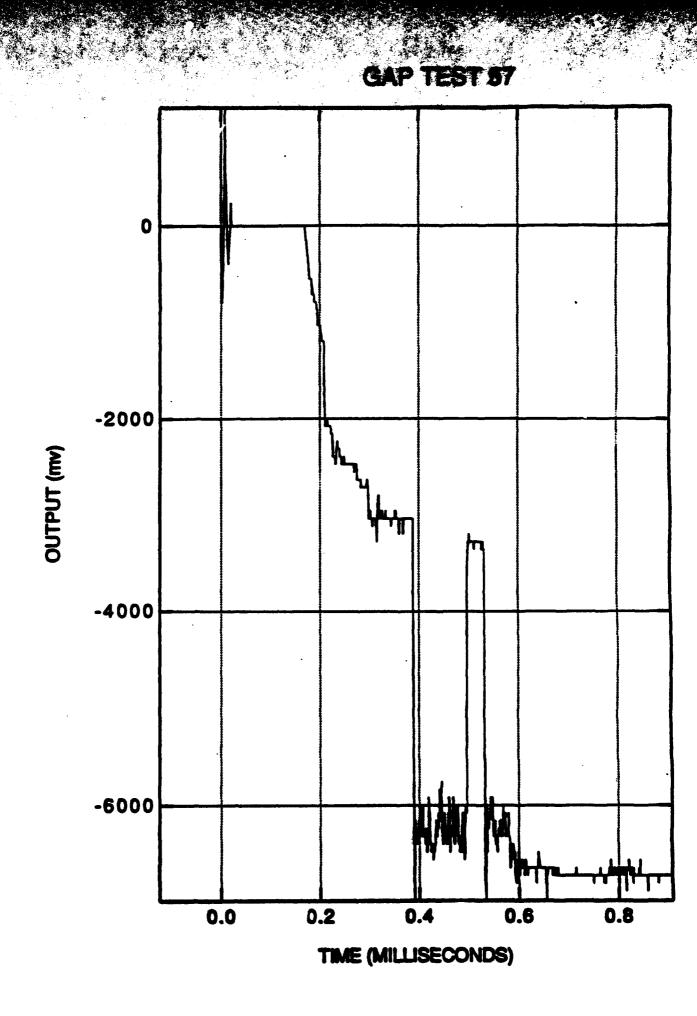
TEST NO 257

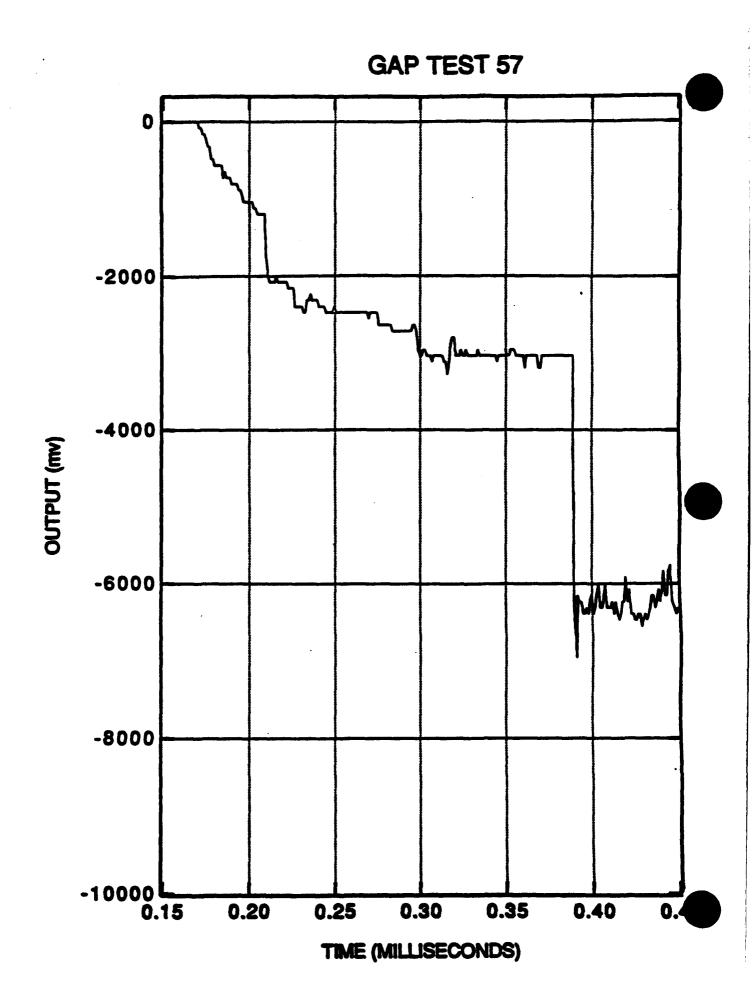
INSTRUMENTATION:

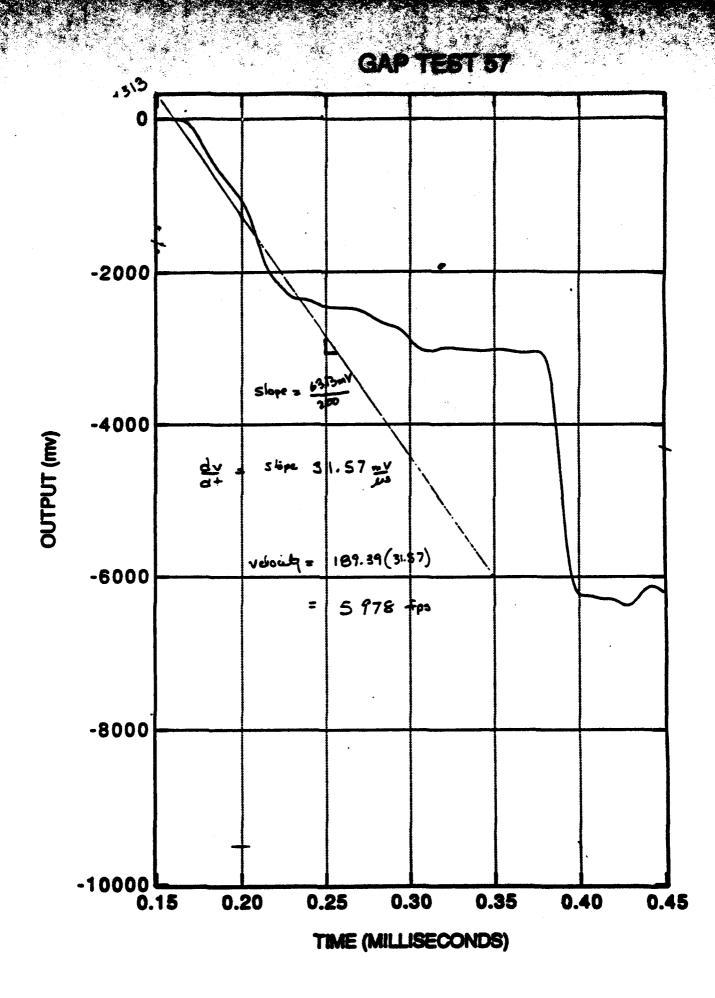
796	ST-MANIES	ENTTON!						
TRANSDUCER	S/M	TOCKLION	TAPE CEAN	(A) CYT	(PSI)	GAIN VOLTAGE		
2	1	1	1	1.0	0.1005+04	1.0 1.0		
COMMENTS	3:							
								
	· · · · · · · · · · · · · · · · · · ·							
								



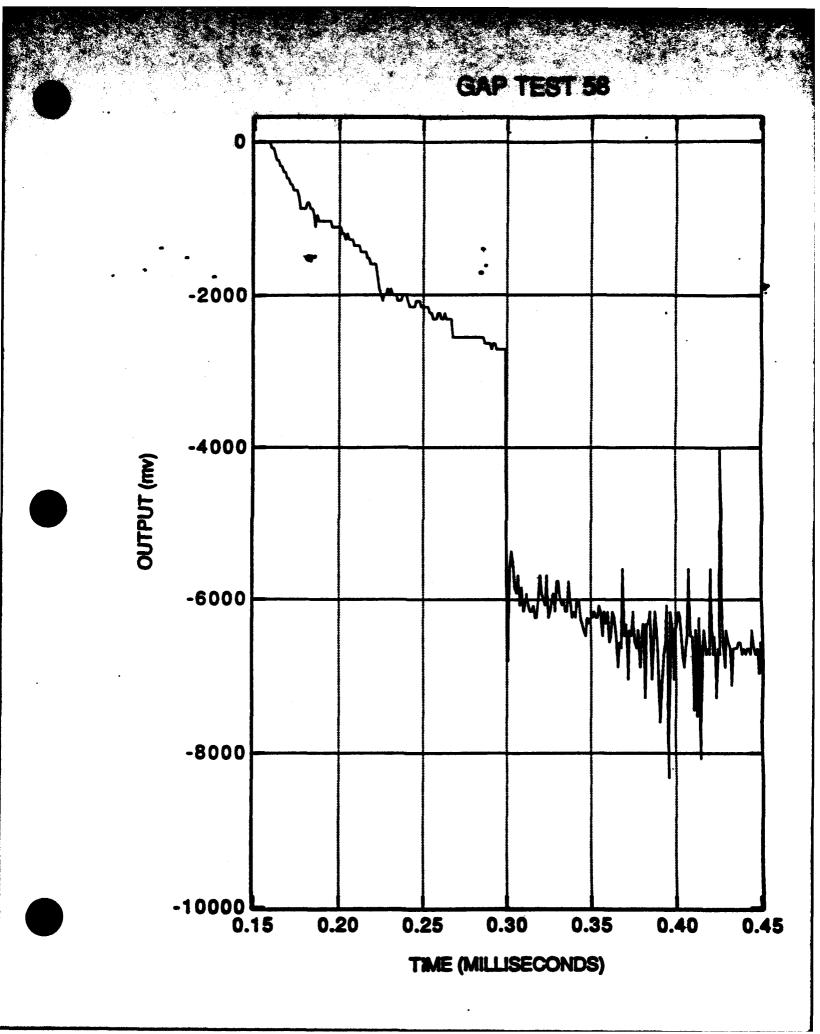
10/14/92

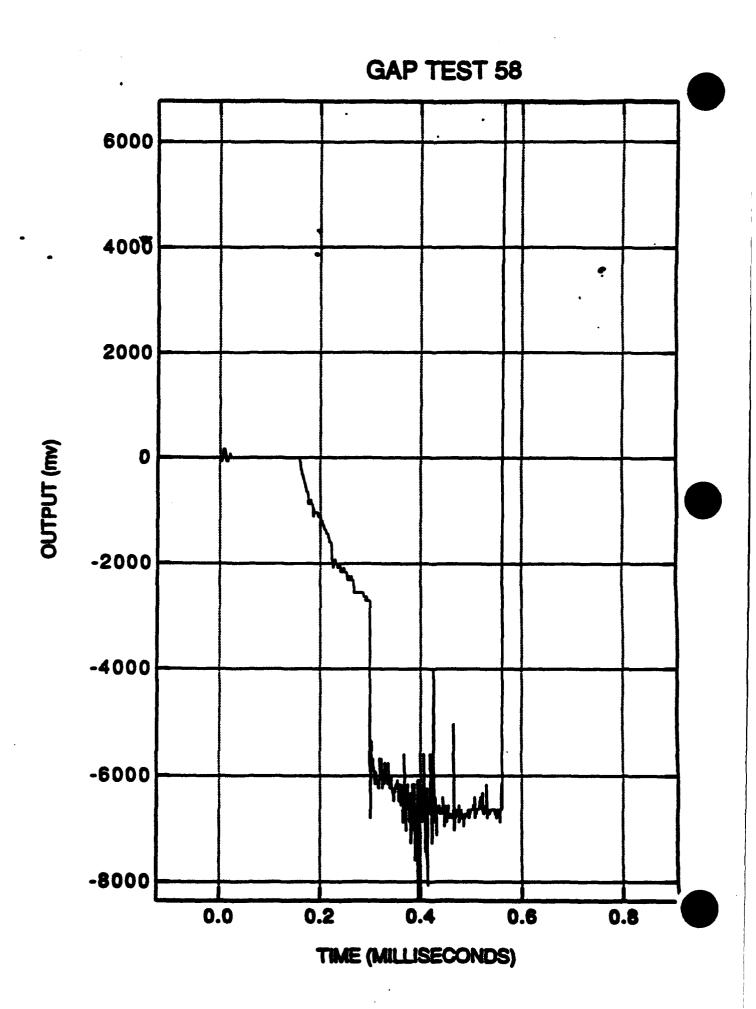


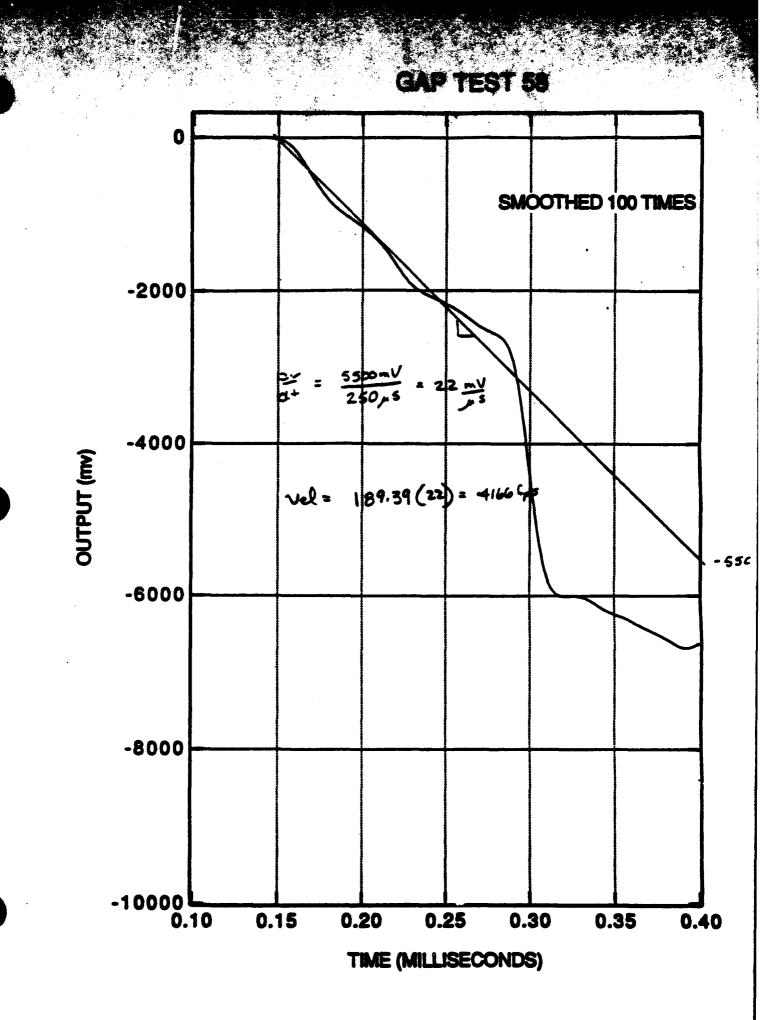




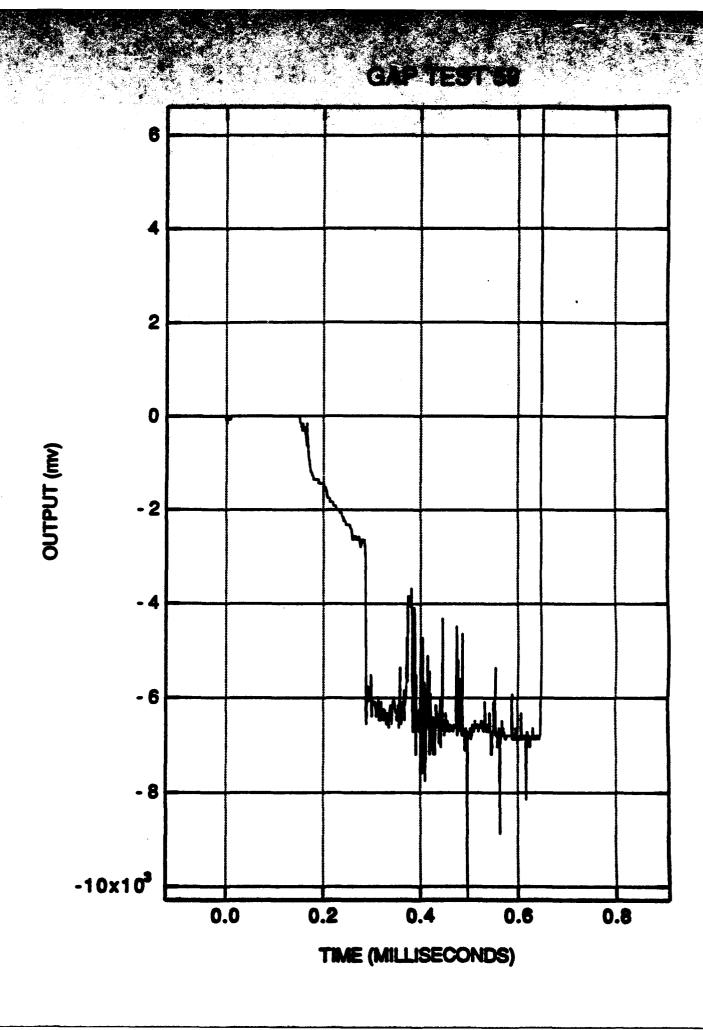
TEST NO 58 DATE
SOIL SAMPLE NO. EP. 01-056 4.5-5' TEMPERATURE 89
RESULTS
PIPE SPLIT NO YES LENGTH OF SPLIT
PIPE FRAGMENTED NO YES NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO YES SIZE
VELOCITY: PEAK 4166 FPS
STABLE DECAYING INCREASING
OVERALL RESULT POSITIVE NEGATIVE
TEST PERSONNEL Gray, Elizando, Zuchay

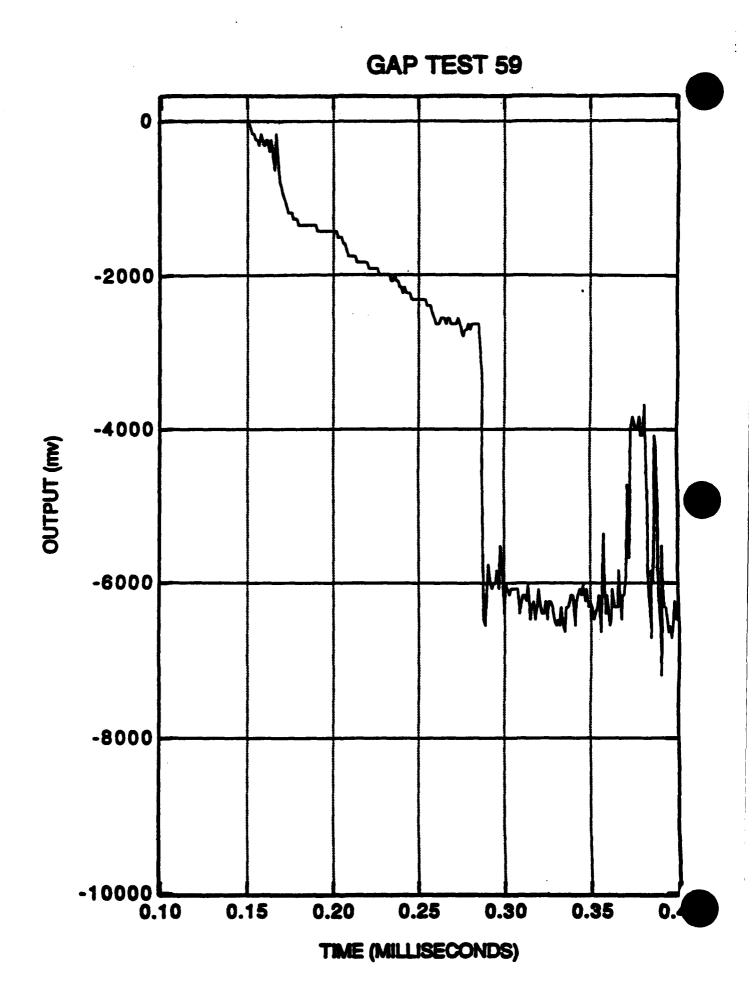


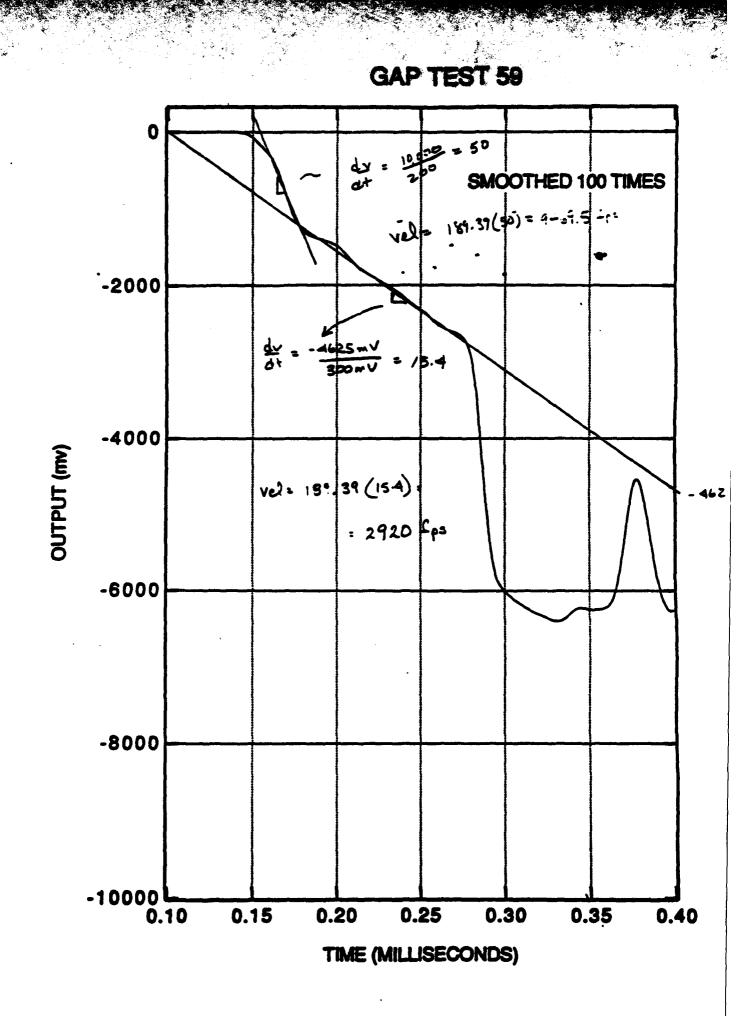




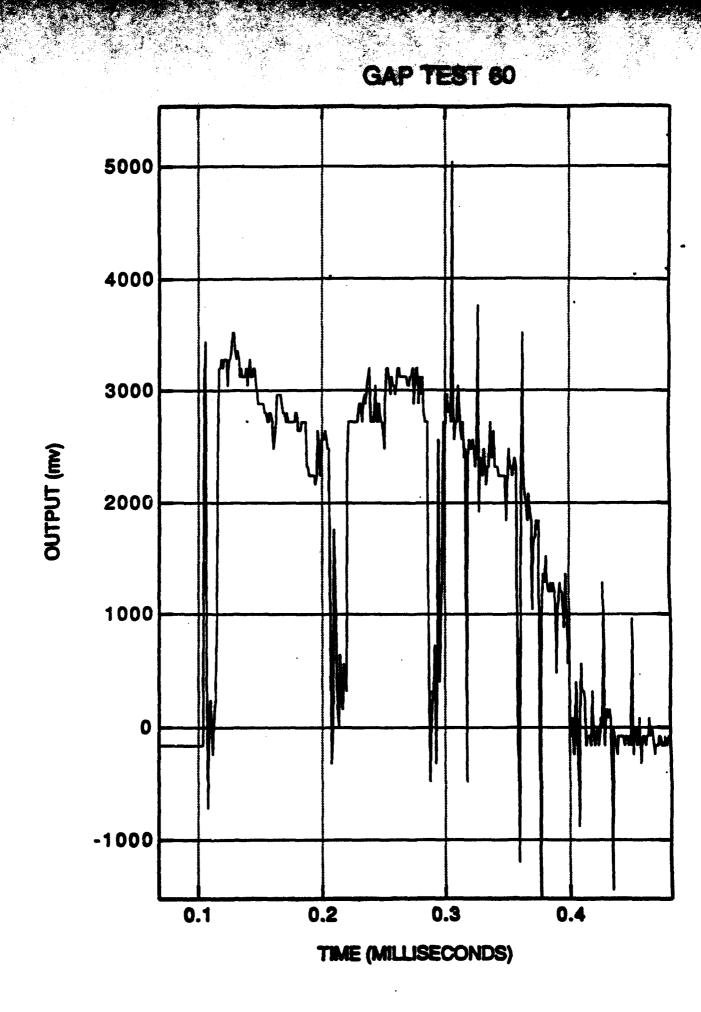
TEST NO DATE
SOIL SAMPLE NO. EP-01-056 4.5-5' TEMPERATURE 90
RESULTS
PIPE SPLIT NO YES LENGTH OF SPLIT
PIPE FRAGMENTED NO YES NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO YES SIZE
VELOCITY: PEAK FPS STABLE DECAYING INCREASING
STABLE DECAYING INCREASING
OVERALL RESULT POSITIVE NEGATIVE
TEST PERSONNEL
ADDITIONAL COMMENTS:

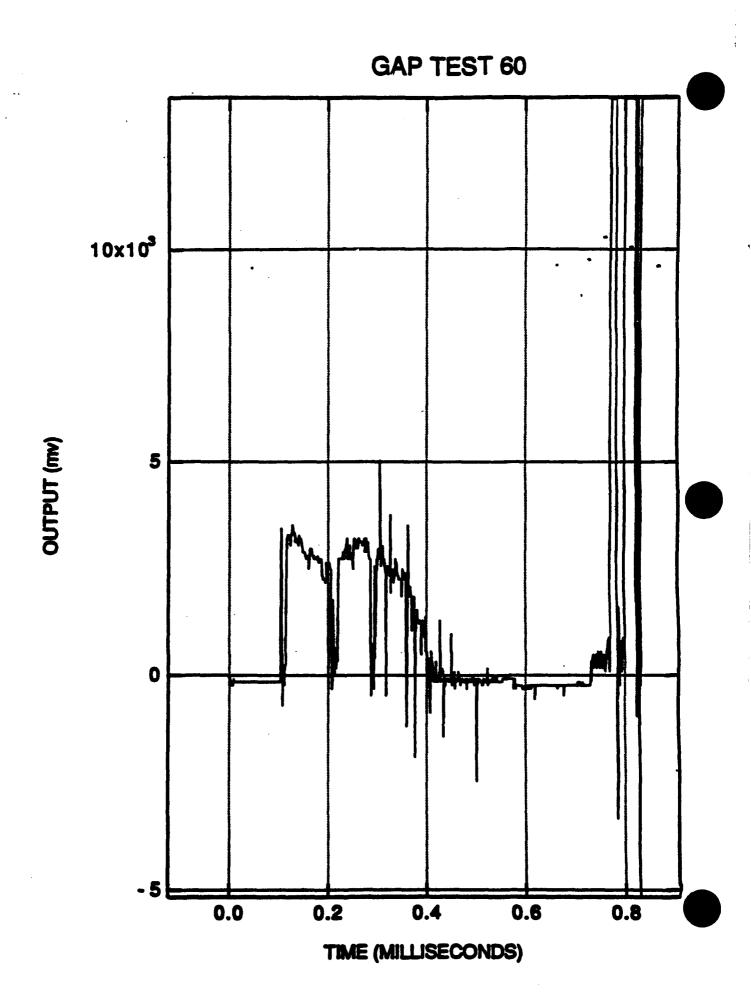


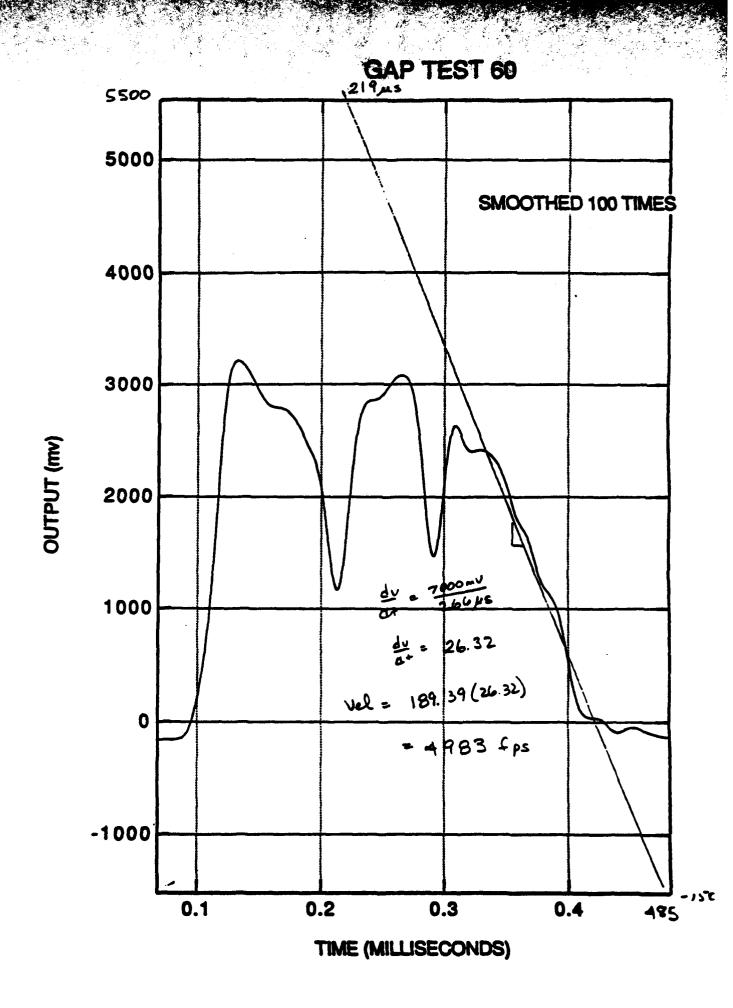




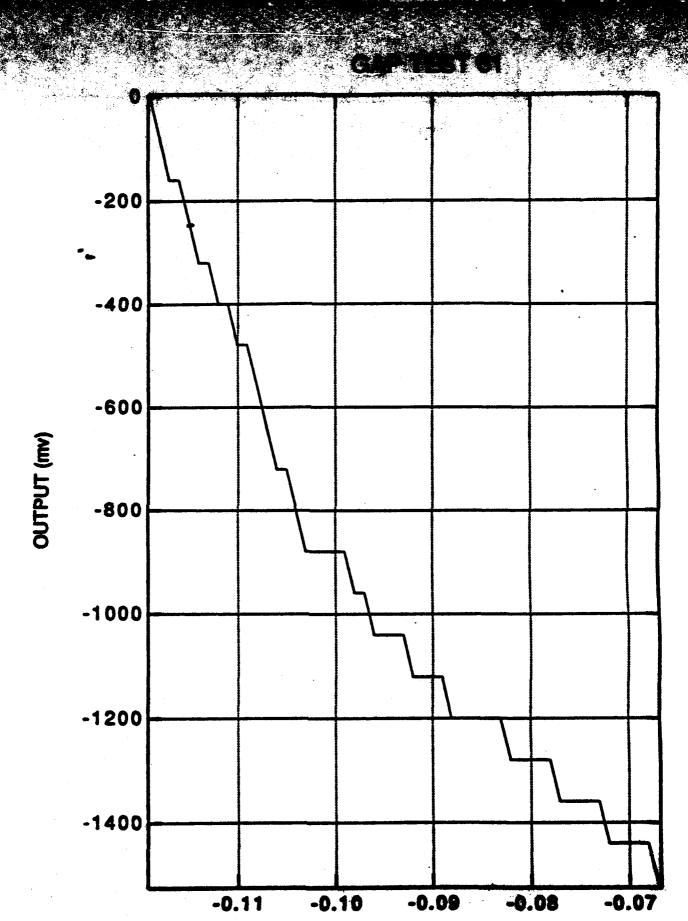
TEST NO	DATE 10/14/92
SOIL SAMPLE NO. 58-01-005-0-1	
RESULTS	·
PIPE SPLIT NO YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 4983 FPS	
STABLE DECAYING INCREASING	
OVERALL RESULT POSITIVE NEGATIVE	
TEST PERSONNEL Gray, Eliterdo, Fuchun	
ADDITIONAL CONCENTS.	



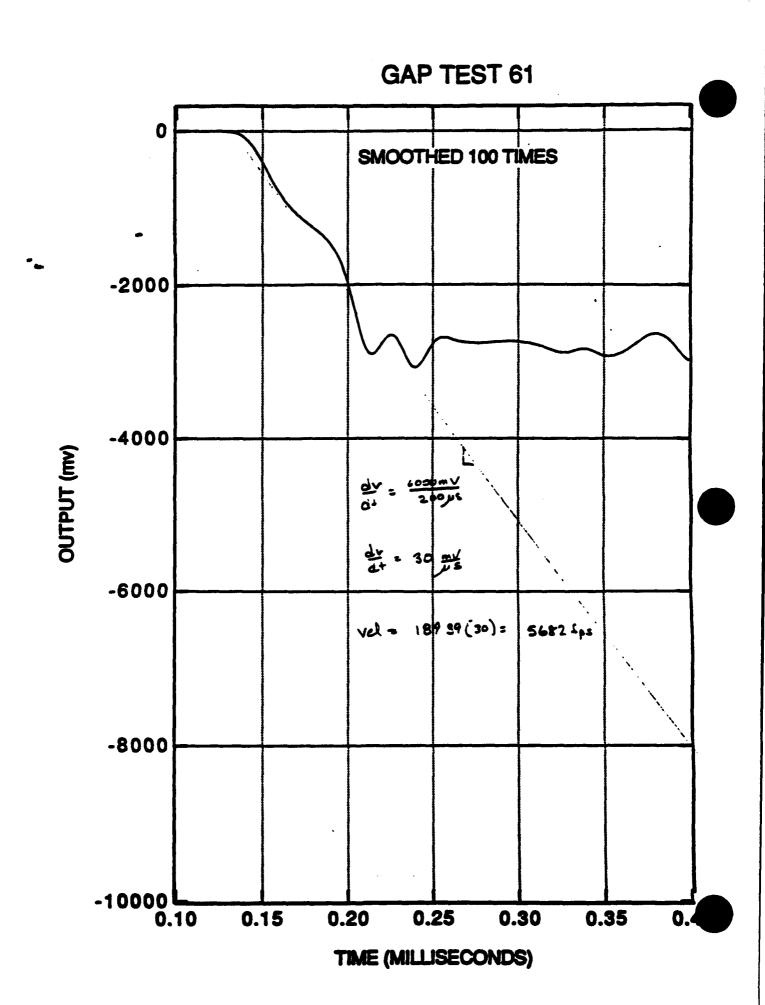


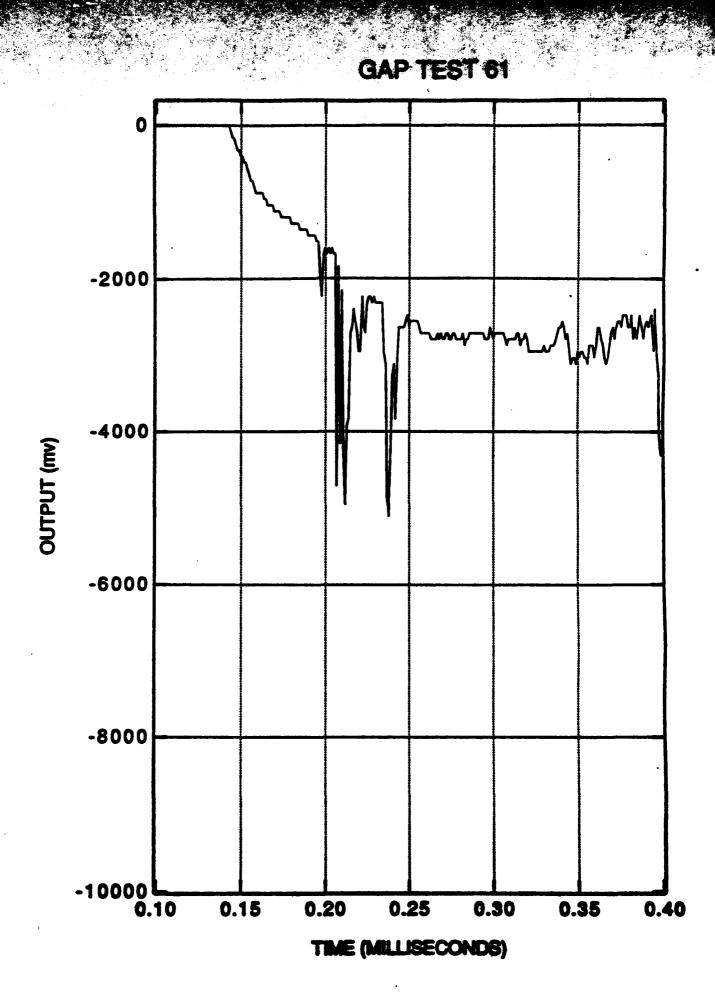


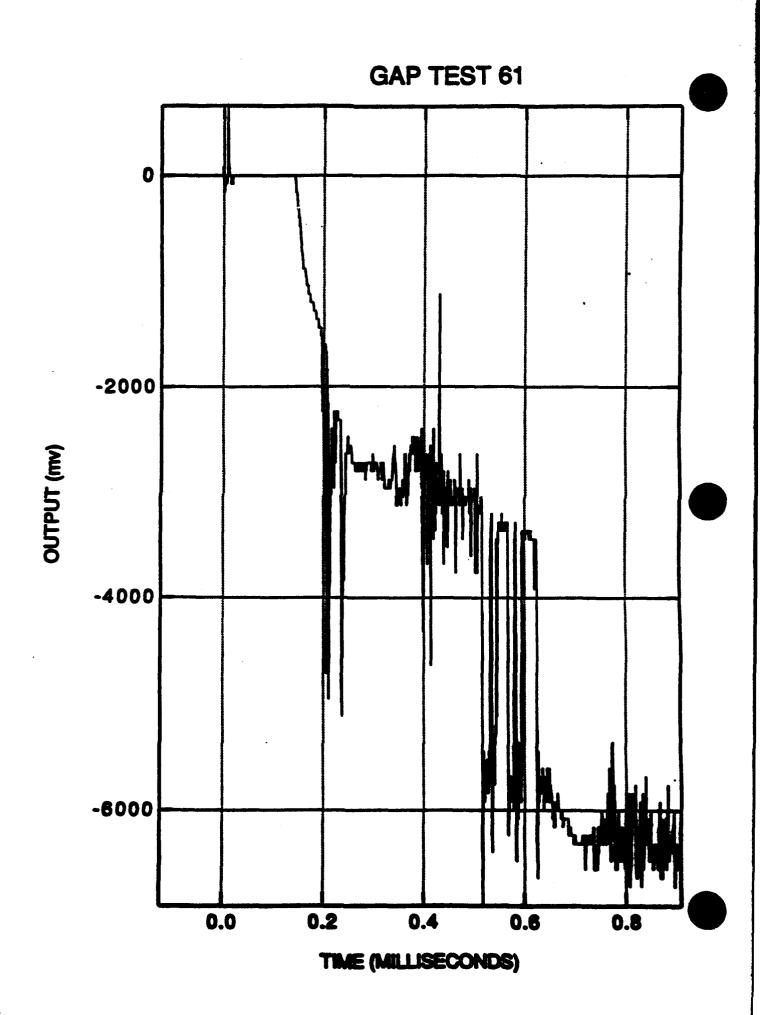
TEST NO. 6	DATE
SOIL SAMPLE NO. 58-01-005-0-1	
RESULTS	•
PIPE SPLIT NO YES	
PIPE FRAGMENTED NO YES	NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO_	✓_ YES SIZE
VELOCITY: PEAK _5682_ FPS	
	NG INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL C El.=2 m	to Zn nent
ADDITIONAL COMMENTS.	•



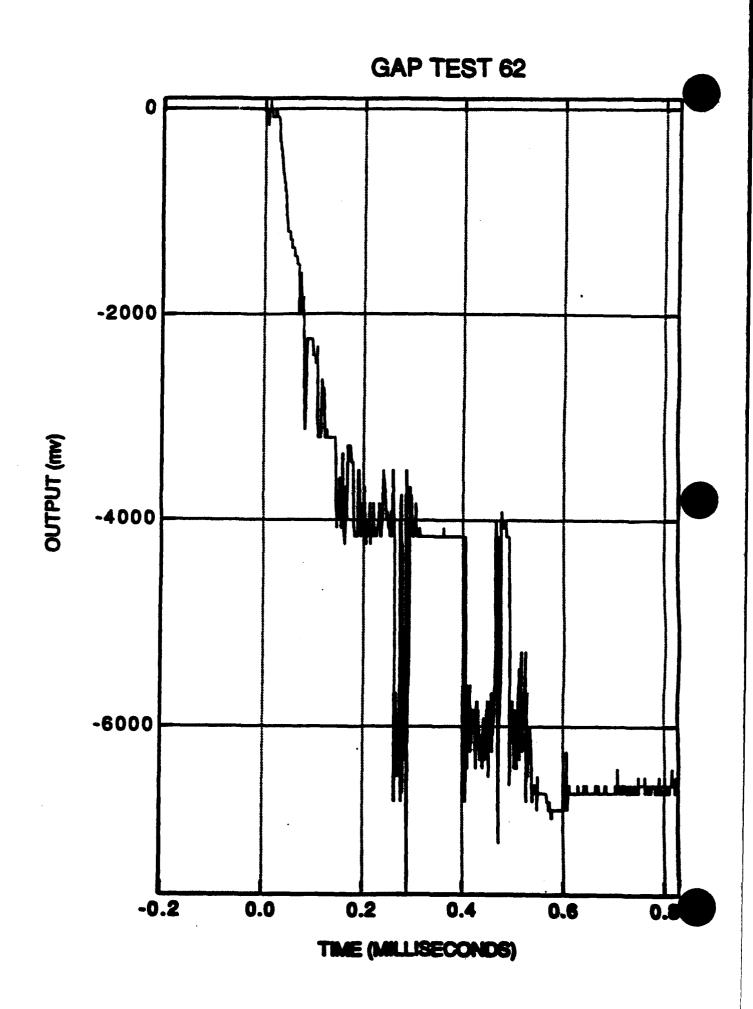
TIME (MILLISECONDS)

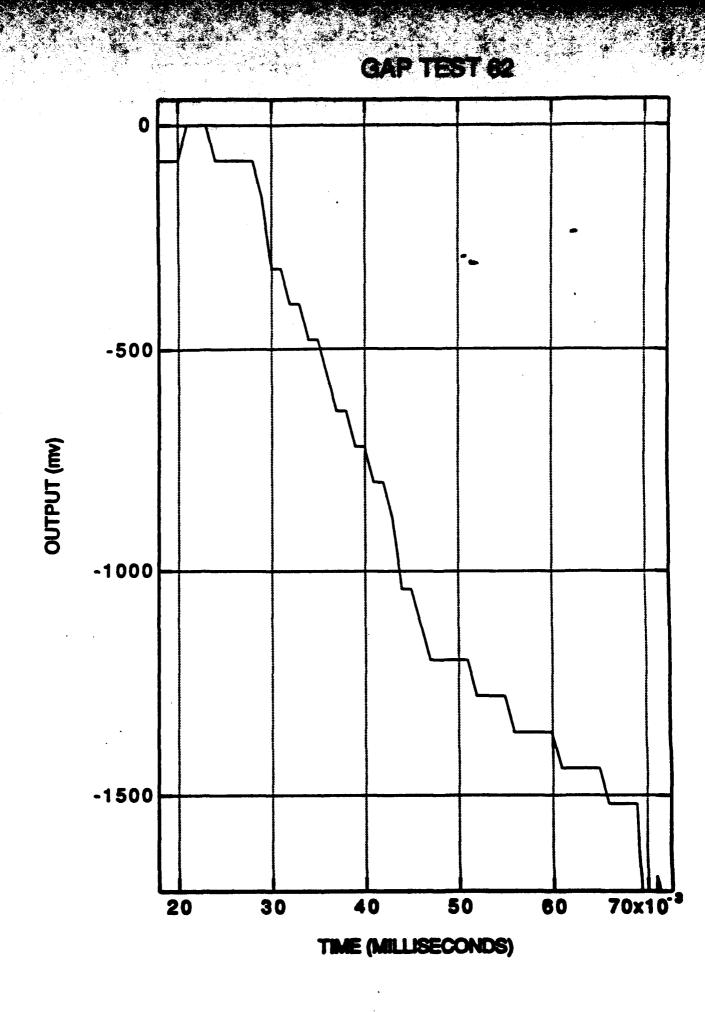


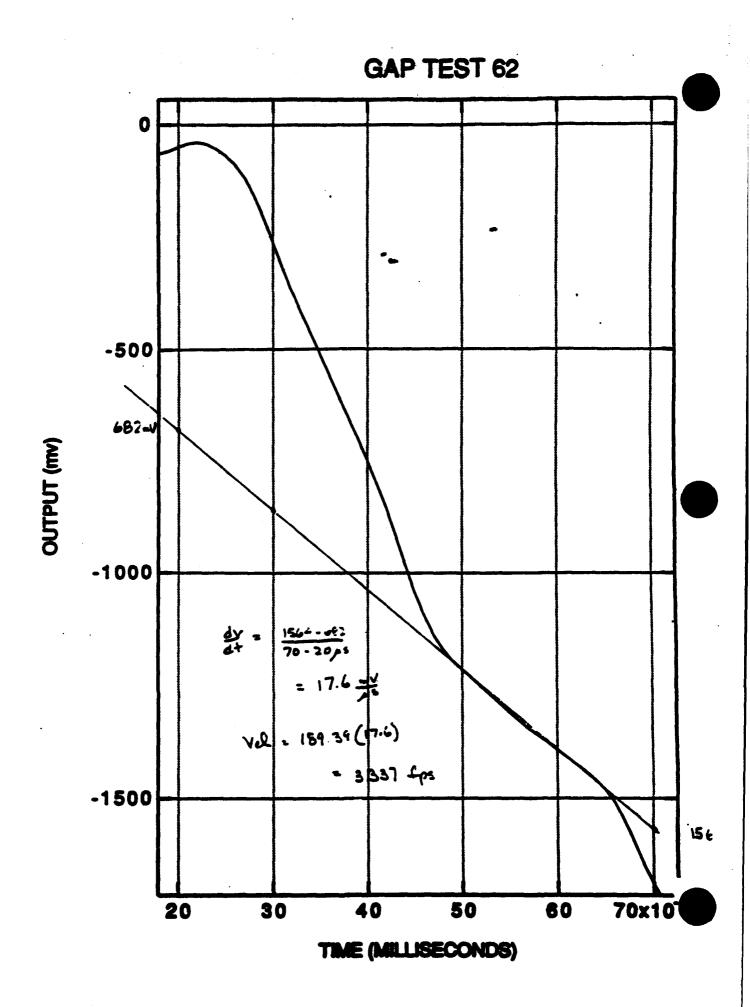




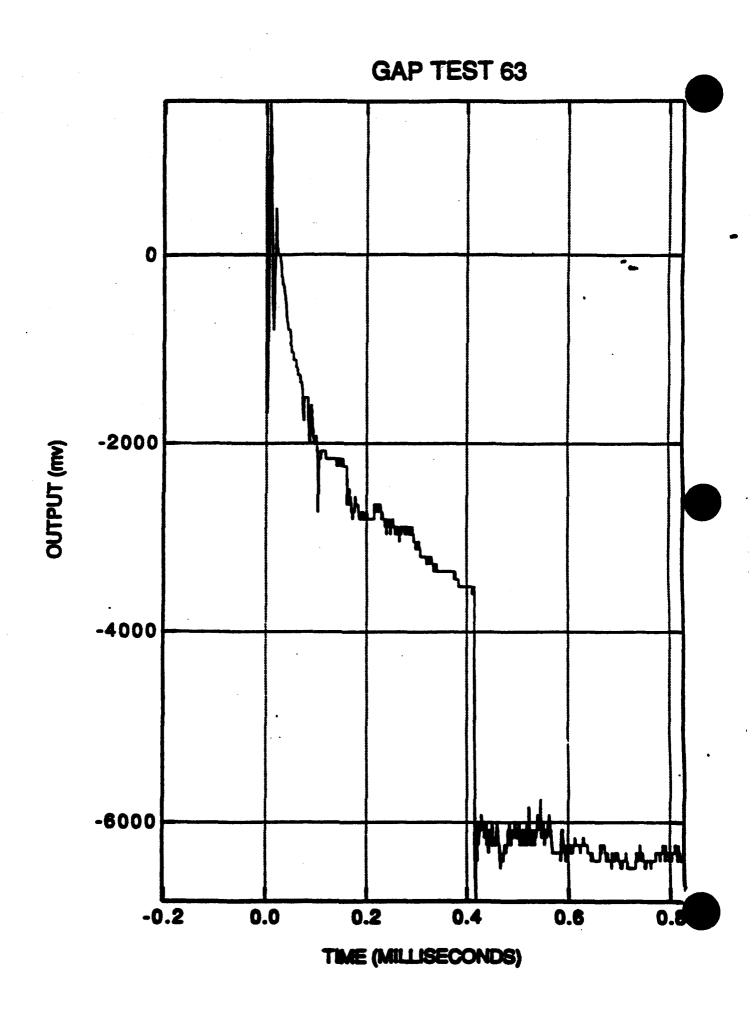
TEST NO	DATE 10/15/92
SOIL SAMPLE NO. 58-01-007	TEMPERATURE 86°
RESULTS	
PIPE SPLIT NO YES	
PIPE FRAGMENTED NO YES	NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO	YES SIZE
VELOCITY: PEAK 2337 FPS	
STABLE DECAYIN	INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL JE, EZ	•
ADDITIONAL COMMENTS.	

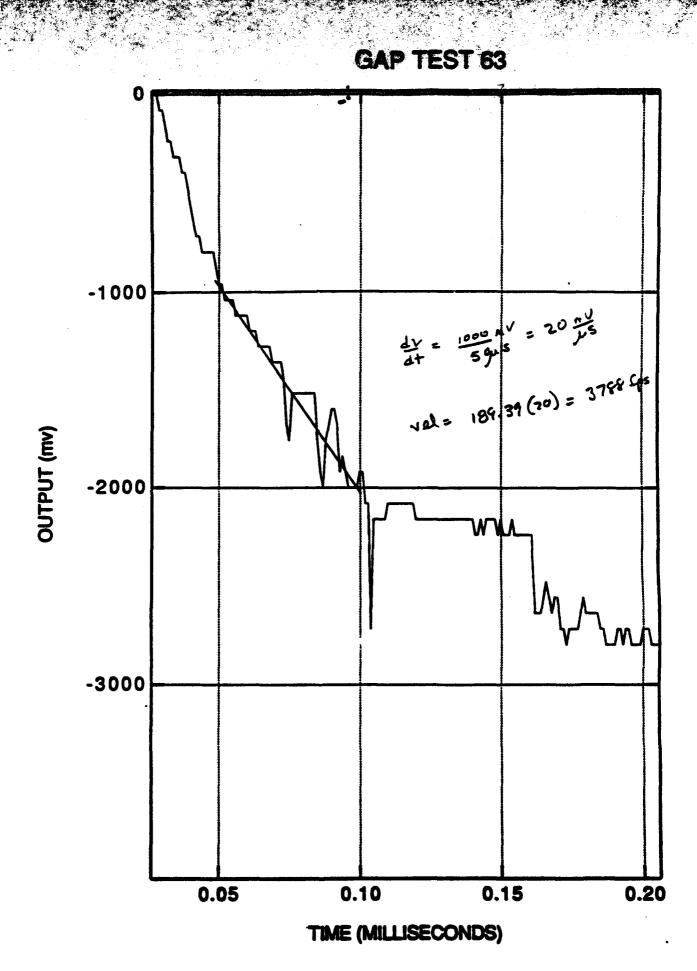






TEST NO63	
SOIL SAMPLE NO. <u>58-01-0</u> 07	TEMPERATURE
RESULTS	
PIPE SPLIT NO YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO_	V YES SIZE
VELOCITY: PEAK 3788 FPS	
STABLE DECAYI	NG INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL EZ & JE	
ADDITIONAL COMMENTS.	

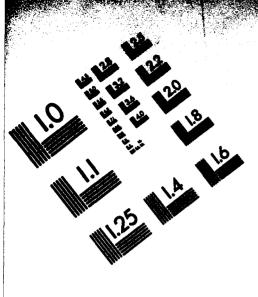




TEST NO	DATE 10 15 92 TEMPERATURE 80
RESULTS	•
PIPE SPLIT NO_V YES	
PIPE FRAGMENTED NO VES	NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 3551 FPS STABLE DECAYING	ng increasing
OVERALL RESULT POSITIVE	
TEST PERSONNEL EZ & JE	

ADDITIONAL COMMENTS:

AD-A282 574 TOOELE ARMY DEPORT-NORTH AREA SUSPECTED RELEASES SHMUS 0/15 UOLUME 2 APPRENDICES A - J REVISION(U) MONTGOMERY WATSON WALNUT CREEK CA DEC 93 XA-USAEC UNCLASSIFIED DAAA15-90-D-0011 NL

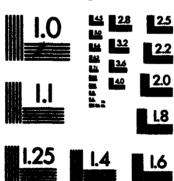


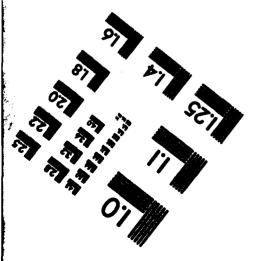


Silver Spring, Maryland 20910 301/587-8202

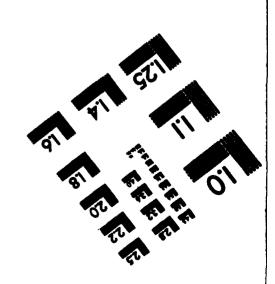
Centimeter

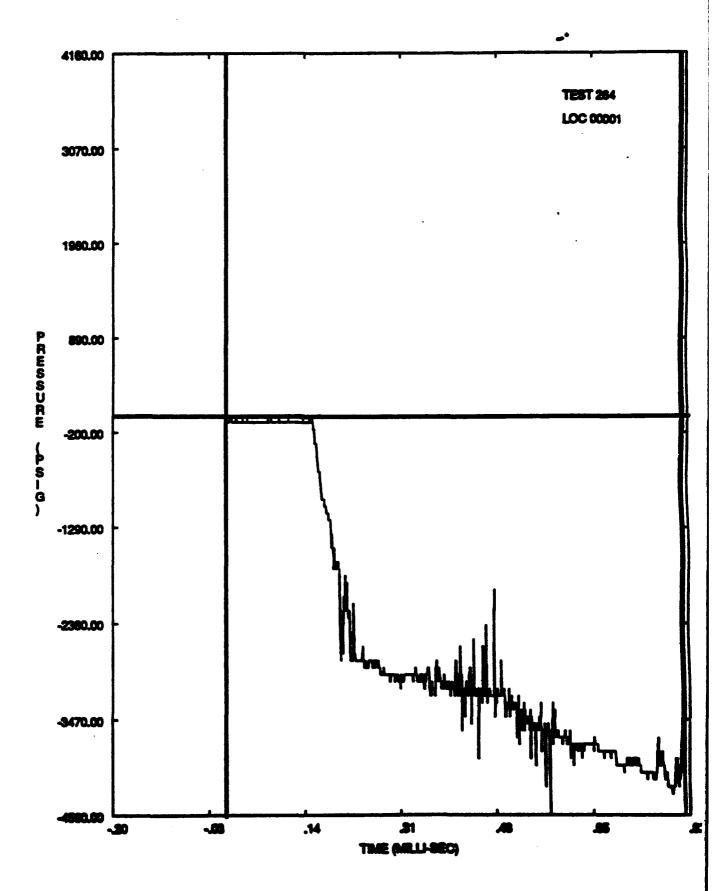


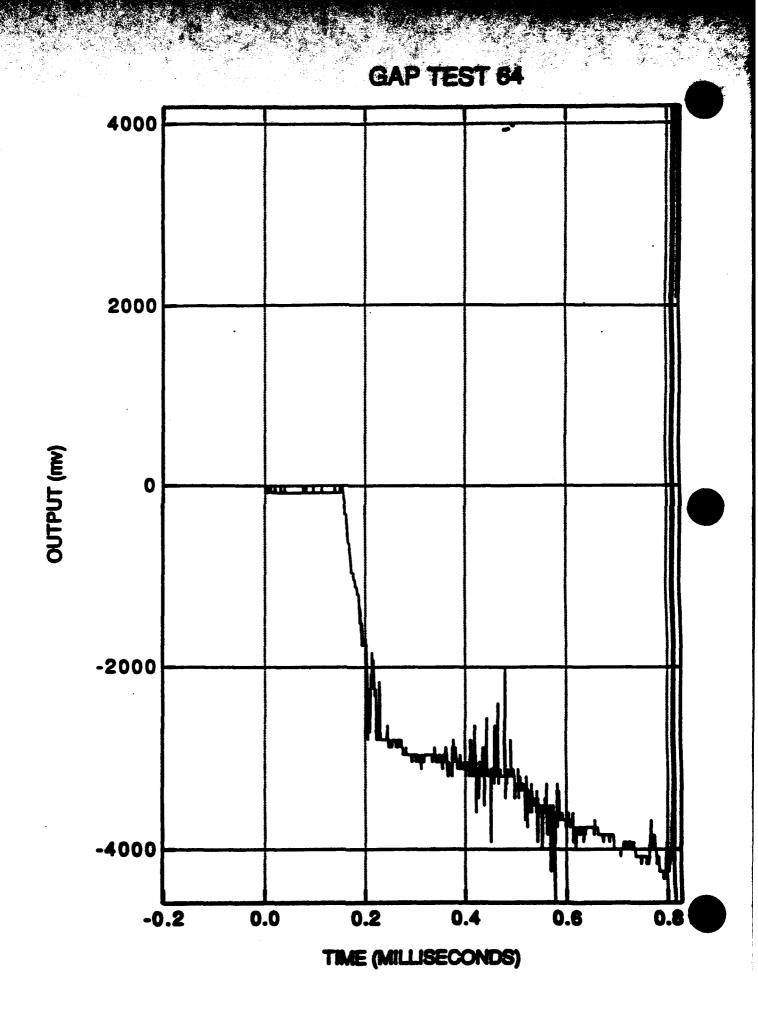


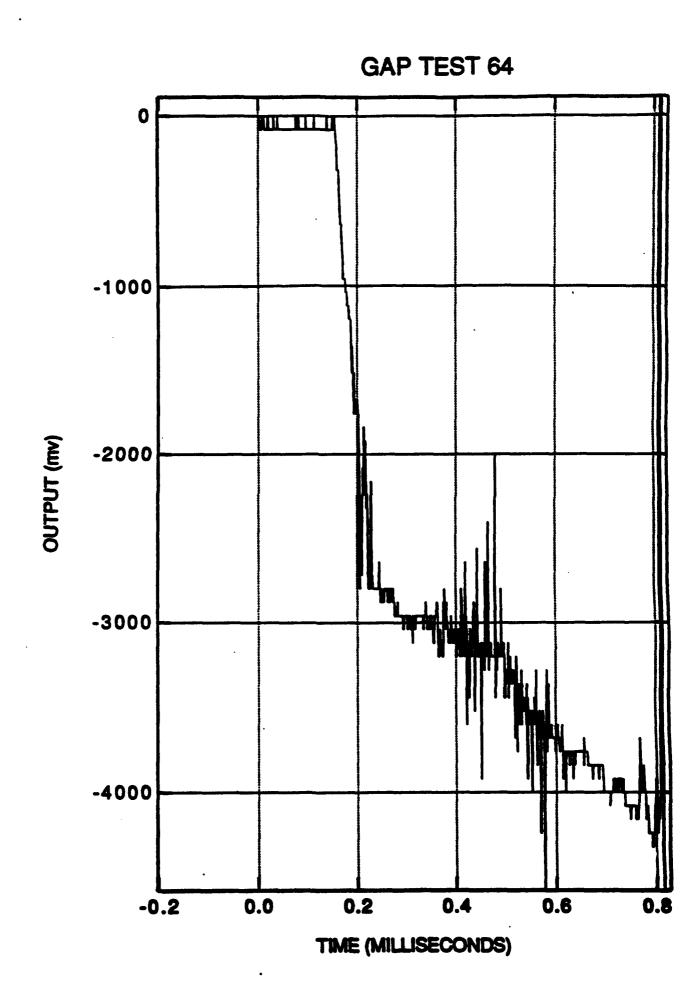


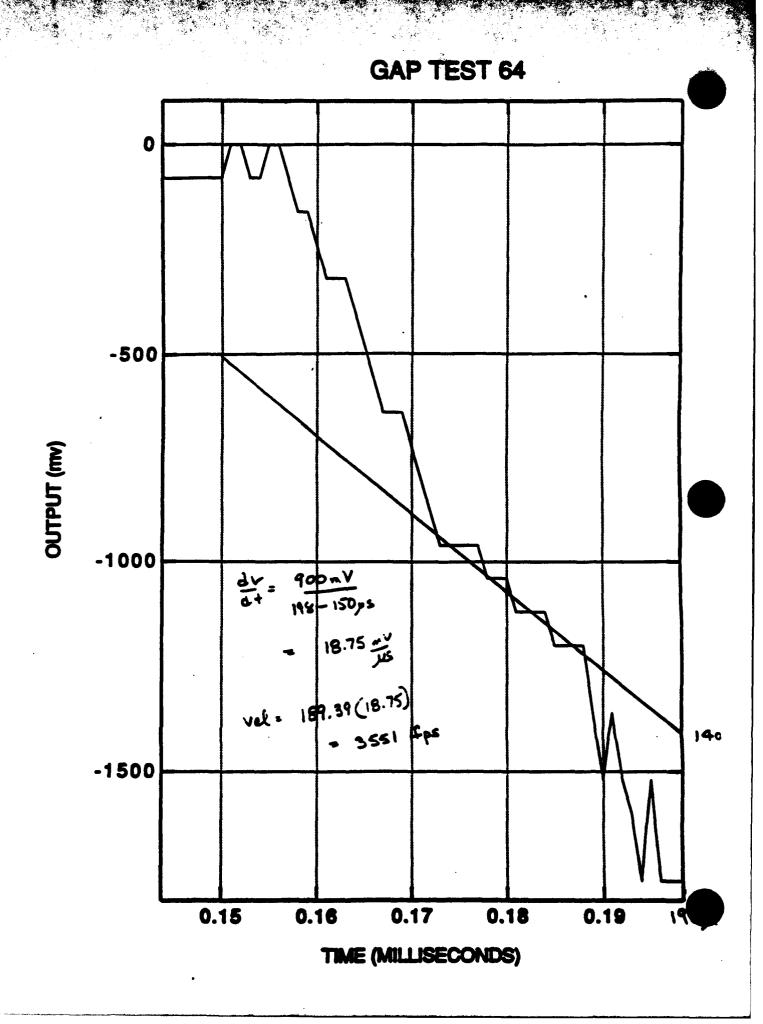
MANUFACTURED TO AIIM STANDARDS BY APPLIED IMAGE, INC.



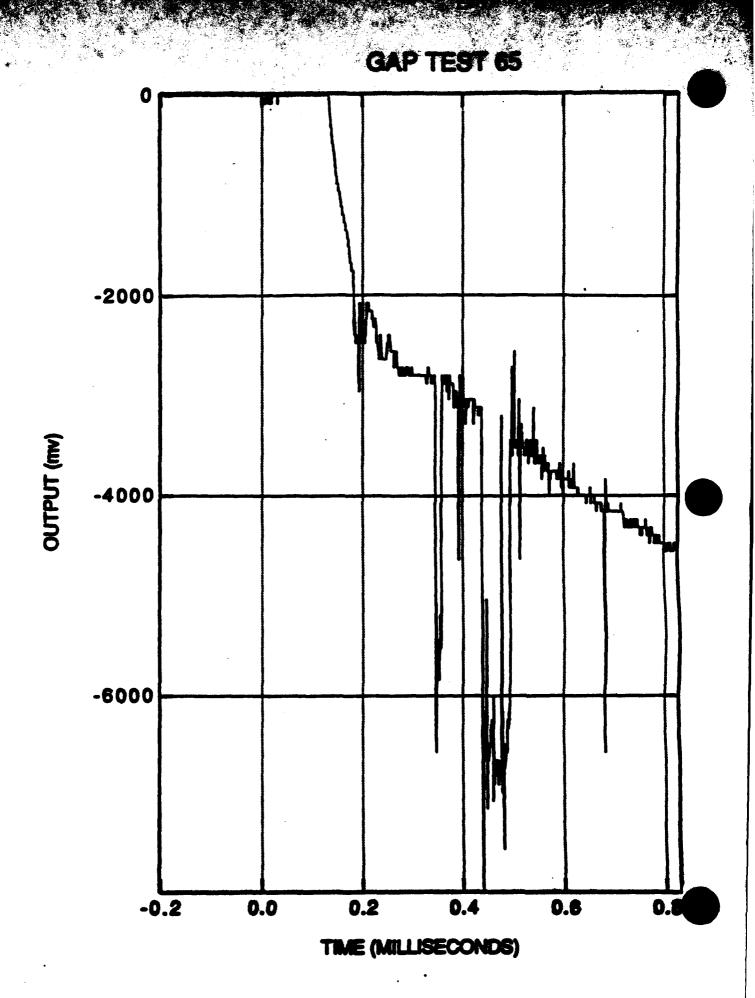


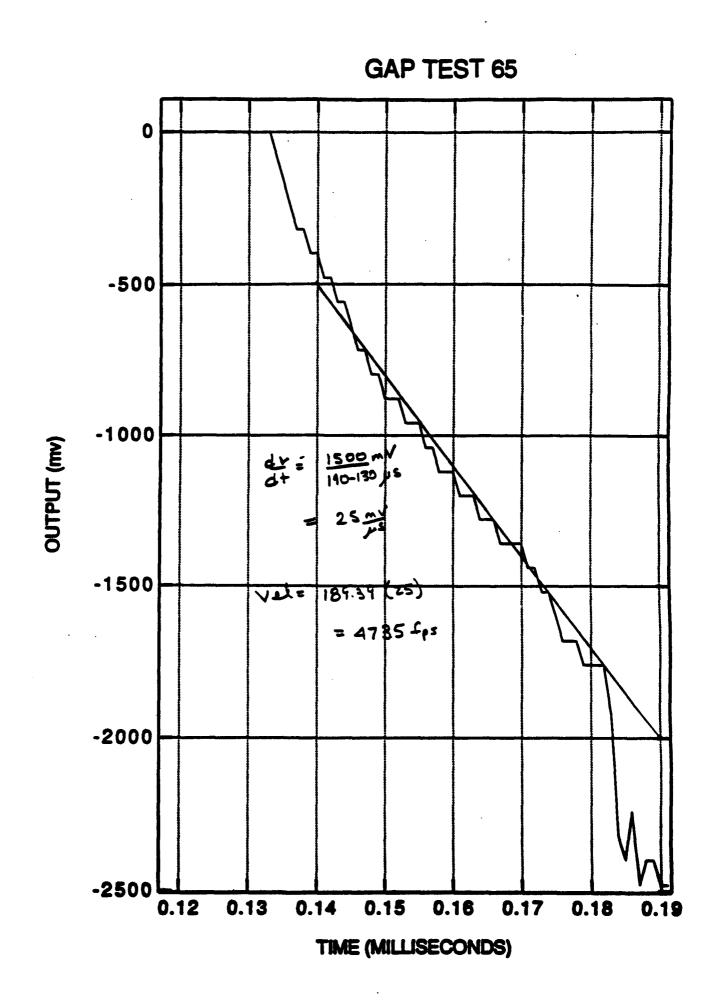






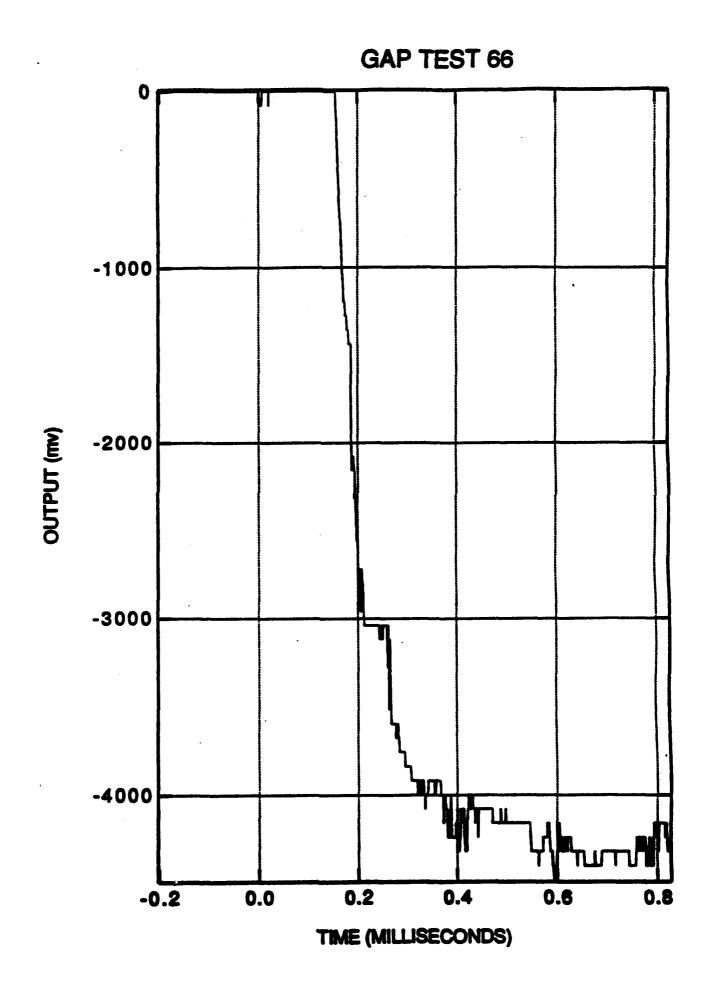
TEST NO	DATE 10/15/92
SOIL SAMPLE NO. 56-01-001	TEMPERATURE
RESULTS	
PIPE SPLIT NO_VYES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 4735 FPS	
STABLE DECAYI	NG INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL EZ, & JE.	<u> </u>
ADDITIONAL COMMENTS:	·

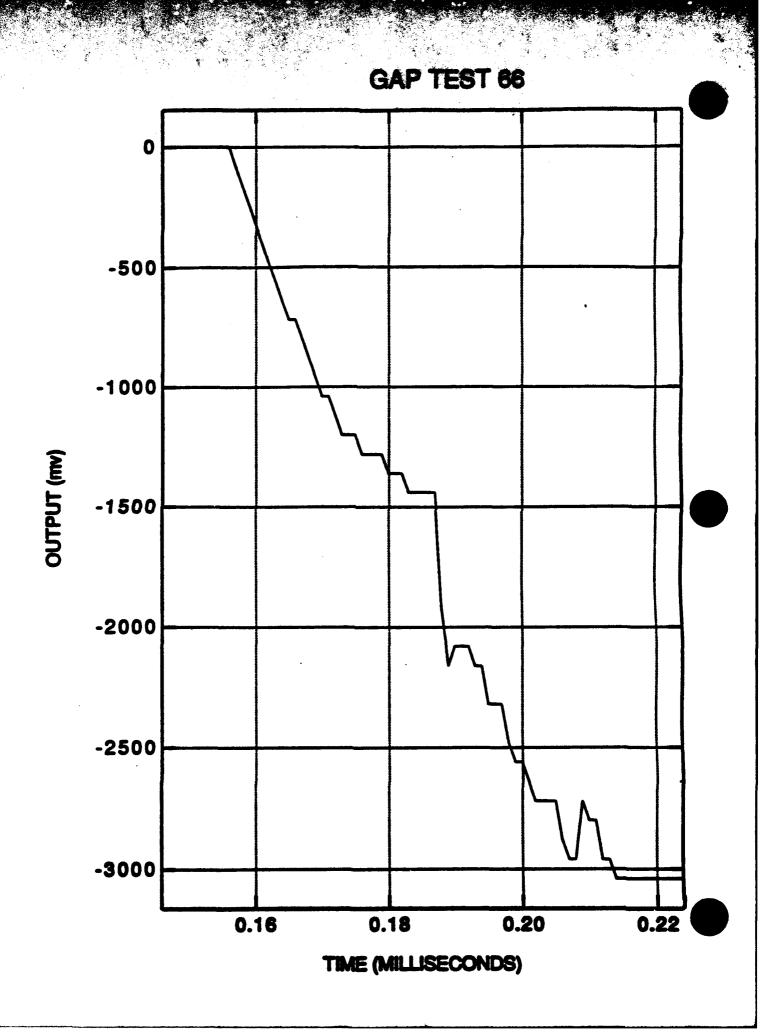


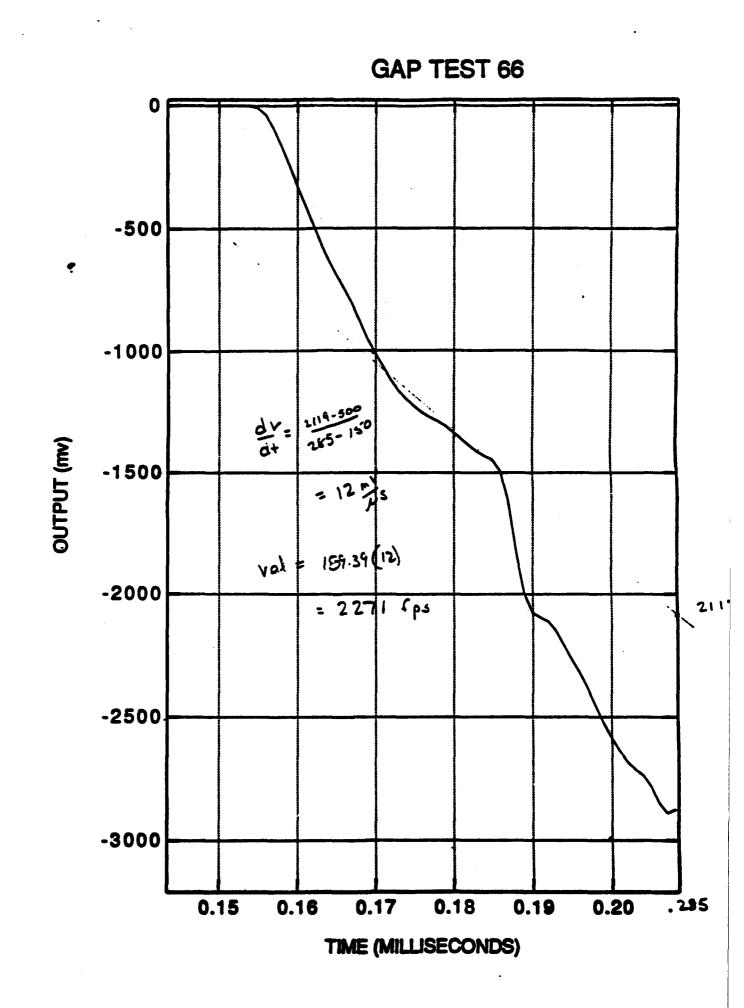


TEST NO. 66	DATE/C
SOIL SAMPLE NO. SB-DI-002	TEMPERATURE 91
RESULTS	
PIPE SPLIT NO YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 2271 FPS	
STABLE DECAYI	NG / INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL EZ & JE	

ADDITIONAL COMMENTS:

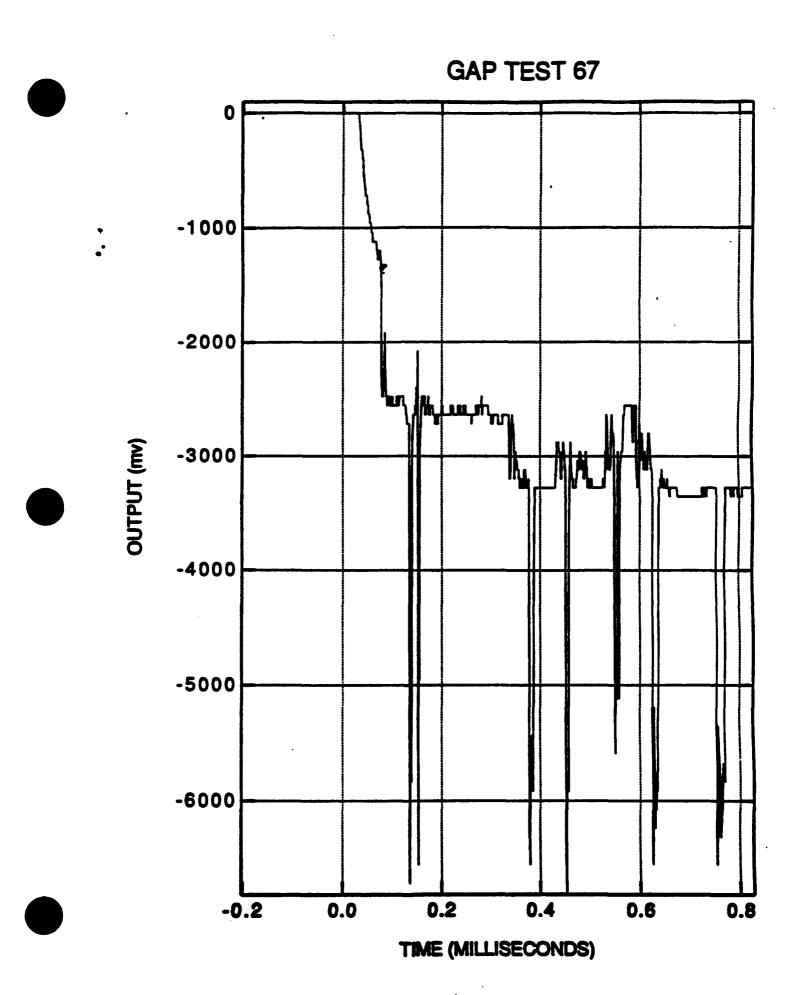


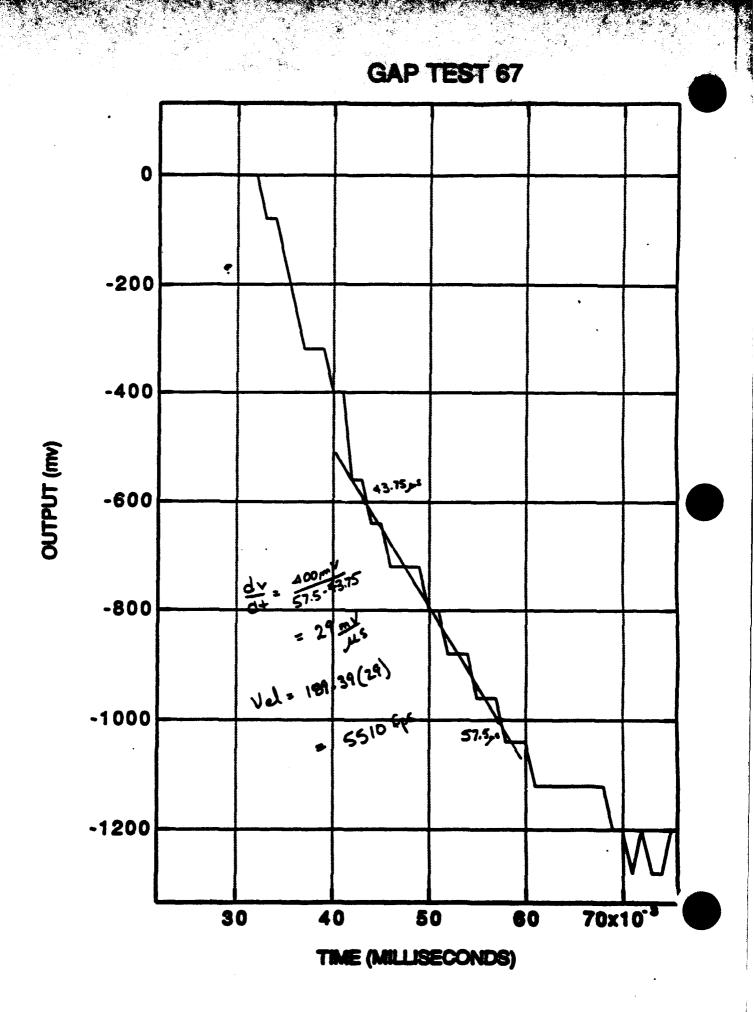


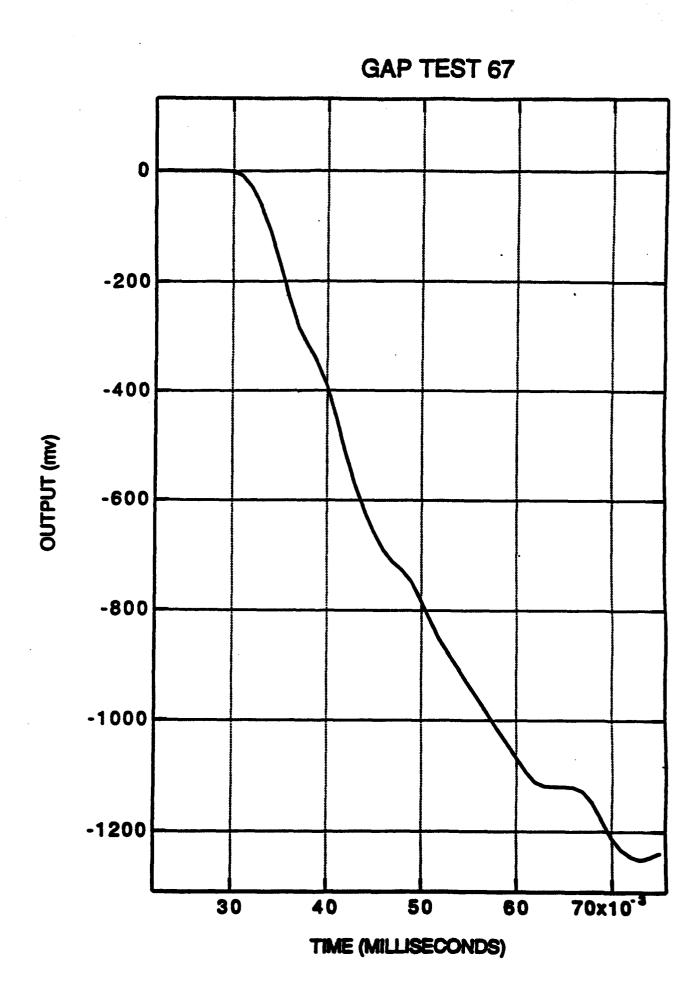


	DATE 10/15/92
SOIL SAMPLE NO. SB-01-002	TEMPERATURE 89
RESULTS	
PIPE SPLIT NO YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	•
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 5510 FPS	
STABLE DECAYIN	IG INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL EZ & JE	•

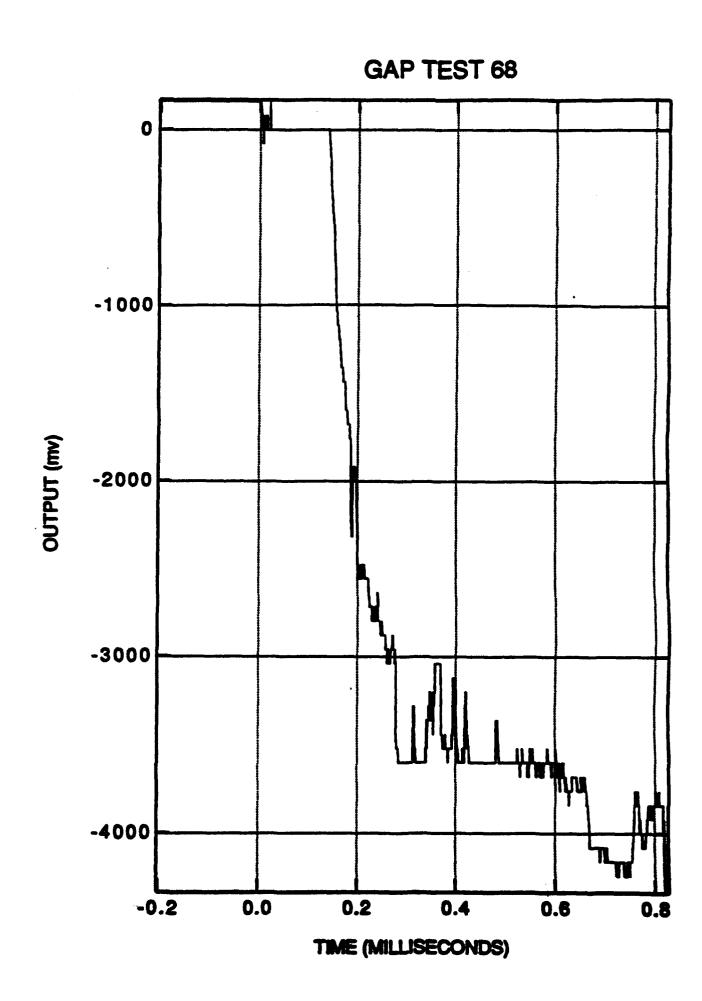
ADDITIONAL COMMENTS:

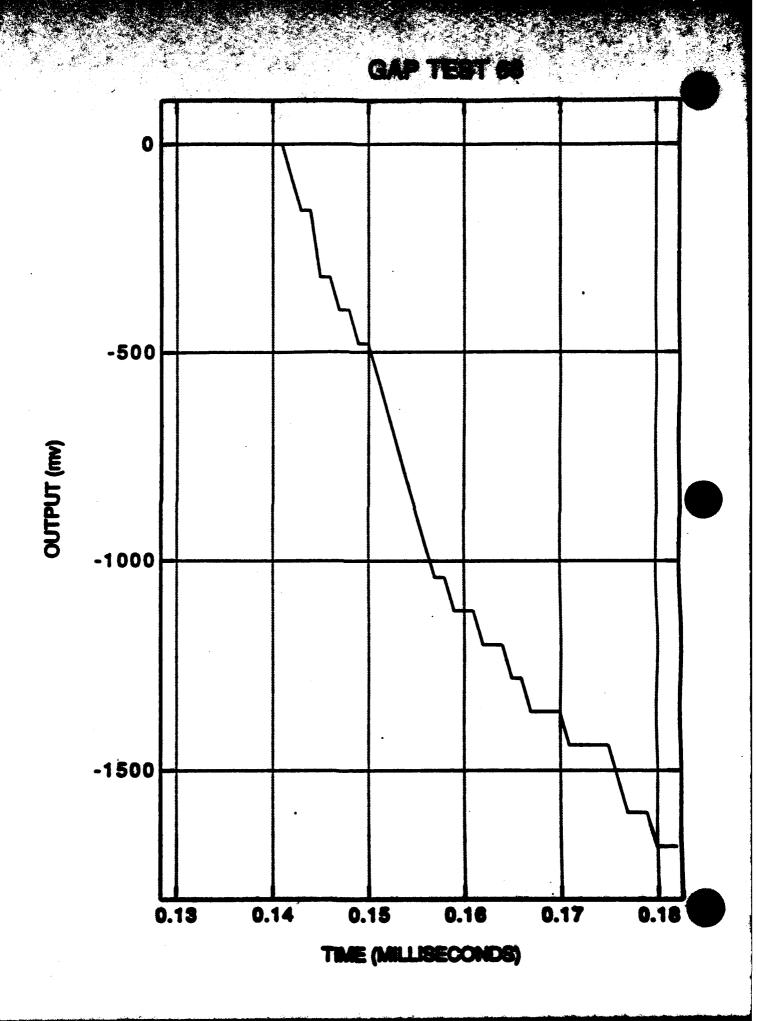


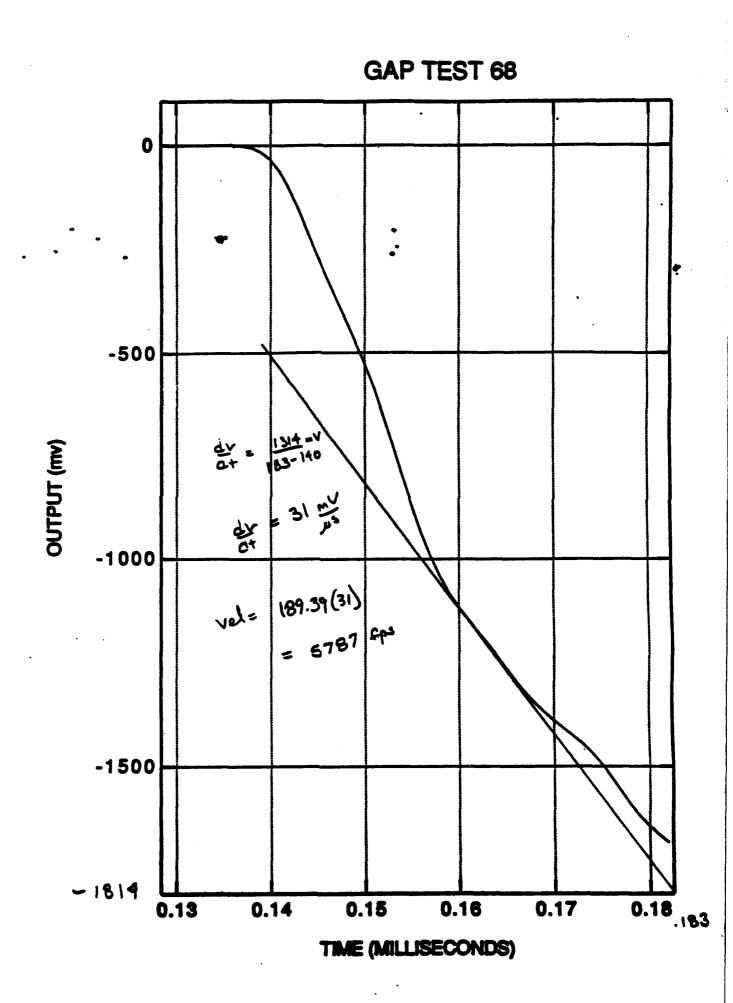




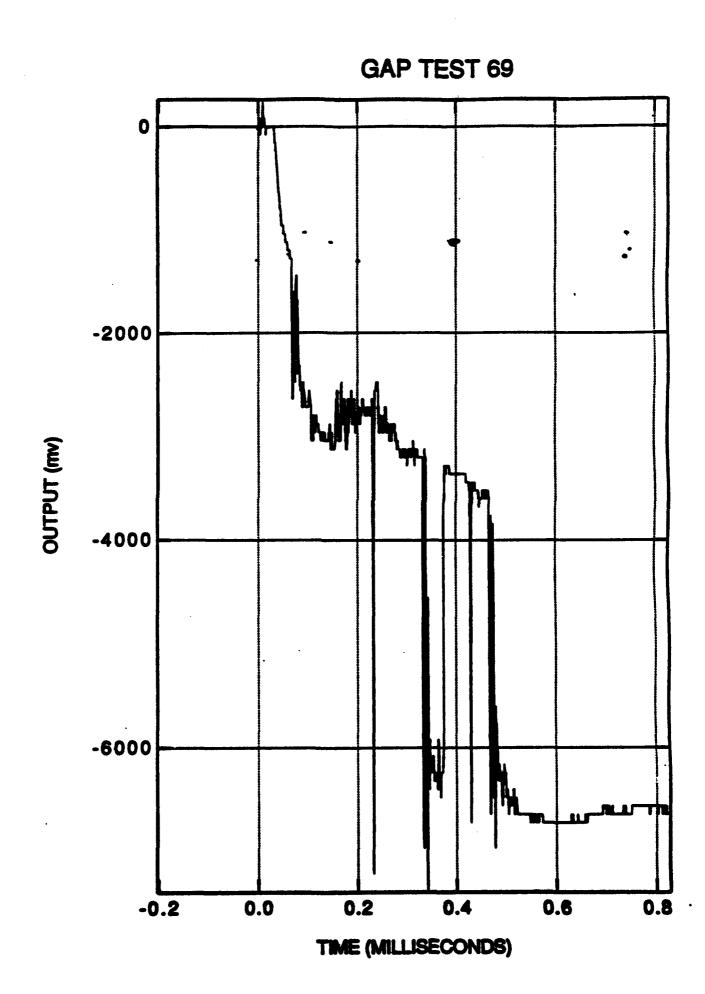
TEST NO. 68 DATE 10/15 /92 SOIL SAMPLE NO. EP-01-087-0-1 TEMPERATURE 898
SOIL SAMPLE NO. EP-01-087-0-1 TEMPERATURE 898
RESULTS
PIPE SPLIT NO V YES LENGTH OF SPLIT PIPE FRAGMENTED NO V YES NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO_VYES SIZE
VELOCITY: PEAK 5787 FPS
STABLE DECAYING INCREASING
OVERALL RESULT POSITIVE NEGATIVE
TEST PERSONNEL EZ & JF
ARRETTOMAL COMMENTS.

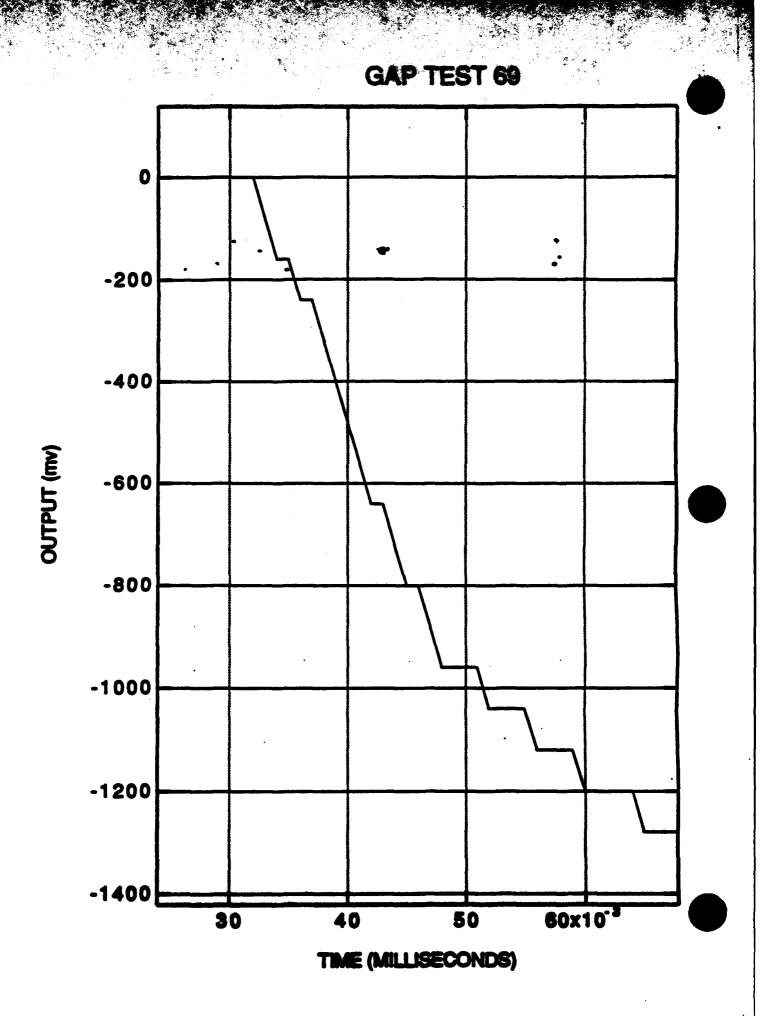


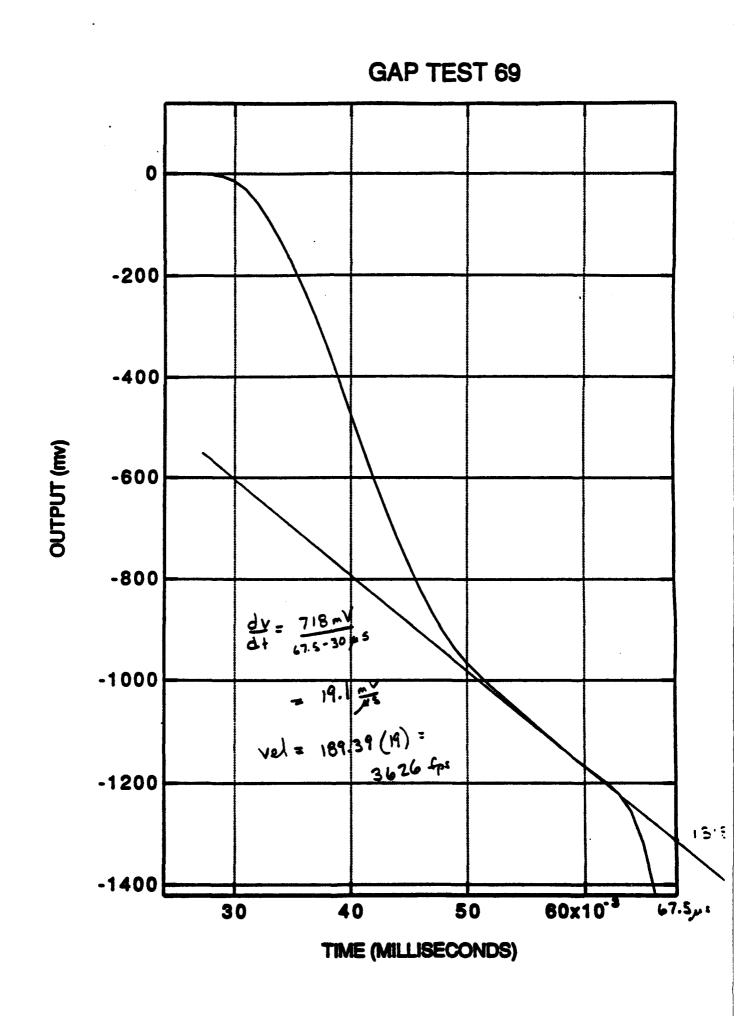




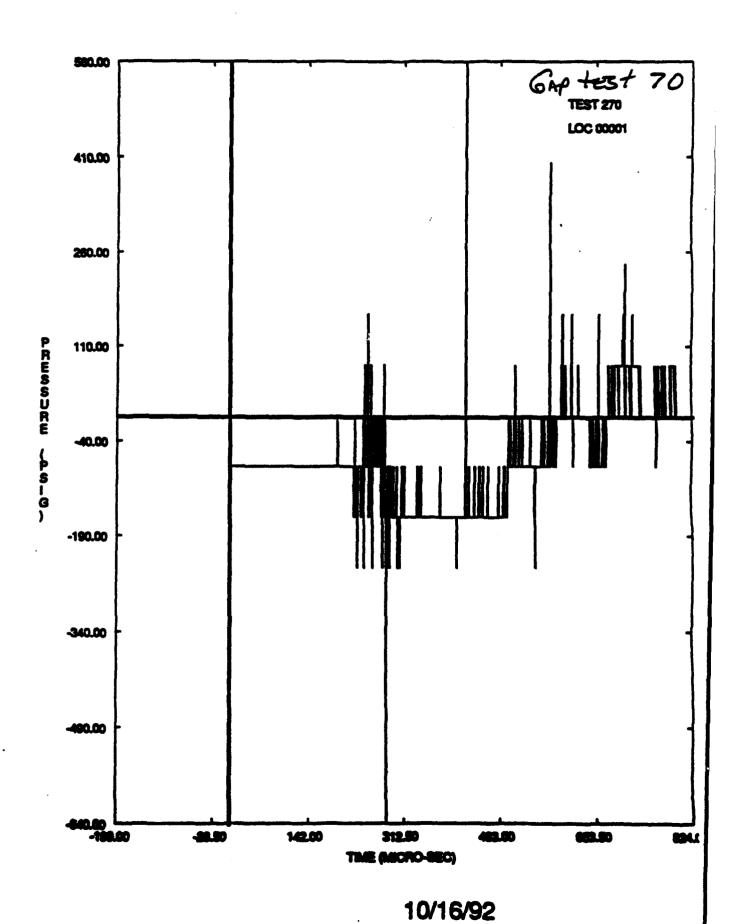
TEST NO69	DATE 10/15/92
SOIL SAMPLE NO. <u>EP-01-087-0</u> -1'	TEMPERATURE 88°
RESULTS	·
PIPE SPLIT NO YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 3626 FPS	•
STABLE DECAYI	NG / INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL EZ # JE	
ADDITIONAL COMMENTS:	



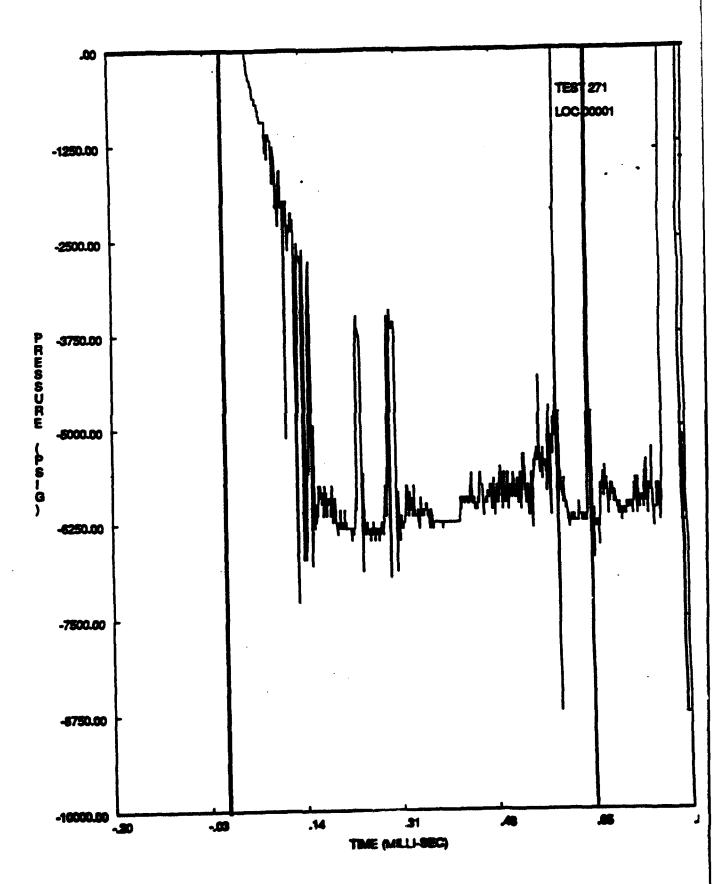


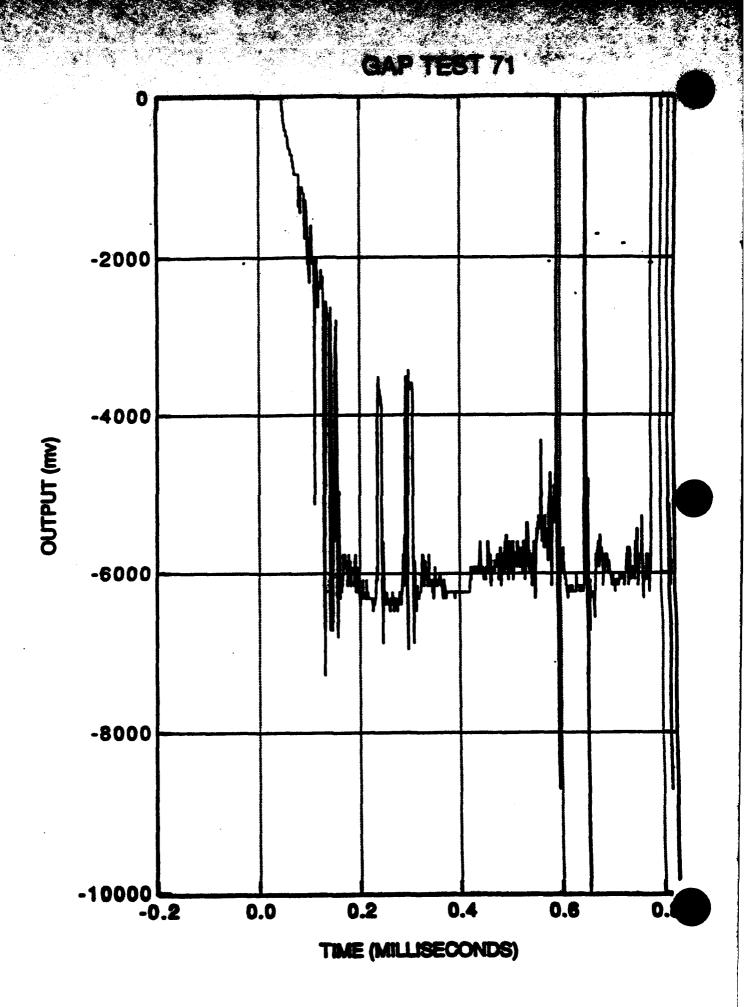


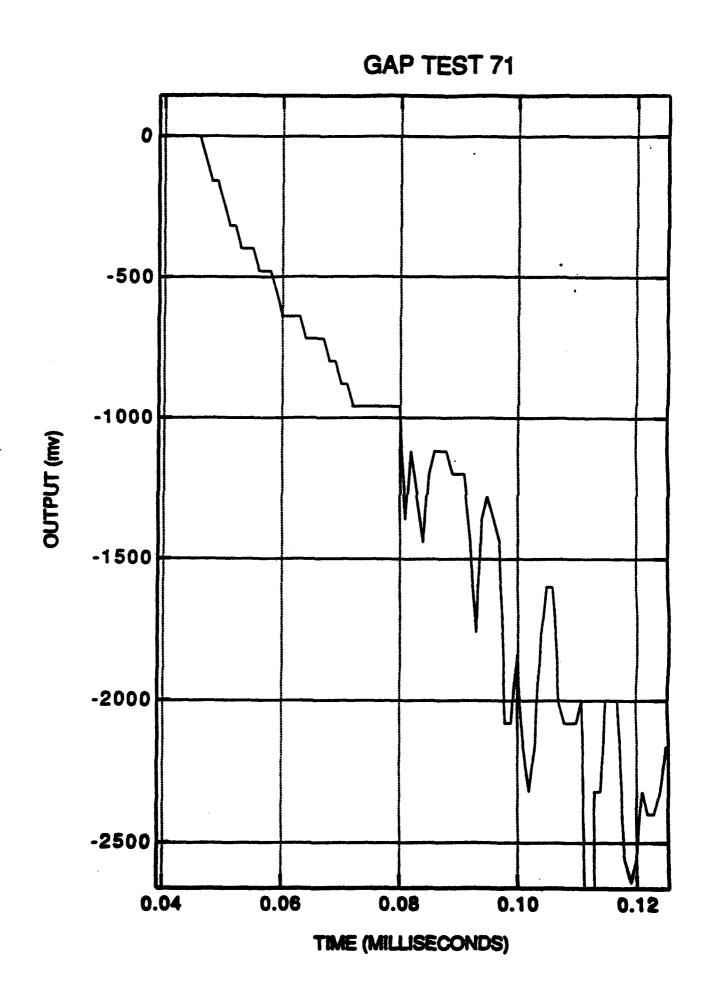
TEST NO	DATE 10 /14/92
SOIL SAMPLE NO. EP-al-116-0-3'	TEMPERATURE FC
Drow Te	
RESULTS	
PIPE SPLIT NO YES PIPE FRAGMENTED NO YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK ND FPS	
STABLE DECAYING	ig increasing
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL EZ & JE	
ADDITIONAL COMMENTS:	

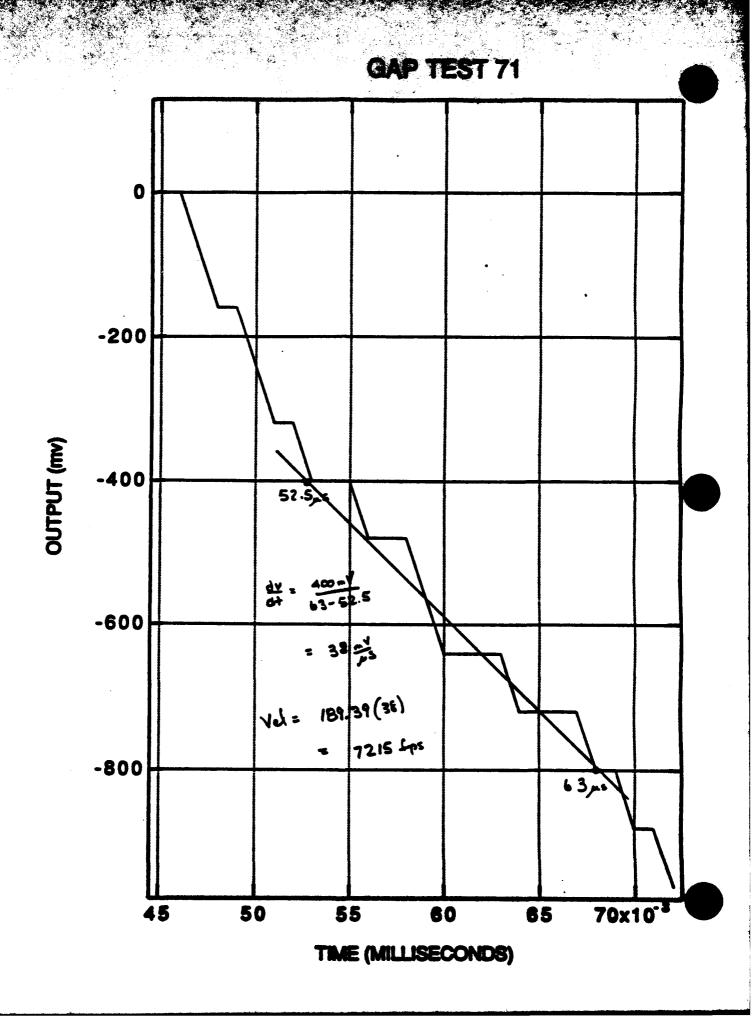


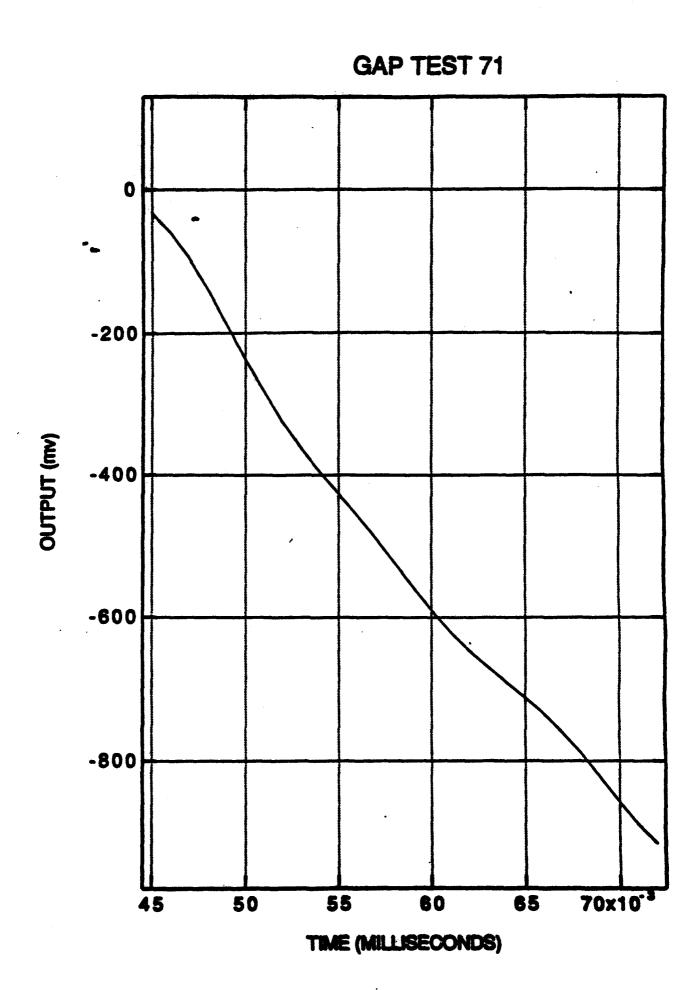
TEST NO	ATE 10/16/92
SOIL SAMPLE NO. <u>EP-01-118</u> -0-3'	EMPERATURE 80
RESULTS	
PIPE SPLIT NO YES L	ENGTH OF SPLIT
PIPE FRAGMENTED NO YES N	
HOLE PUNCHED IN WITNESS PLATE NO	YES SIZE
VELOCITY: PEAK FPS STABLE DECAYING	
STABLE DECAYING	INCREASING
OVERALL RESULT POSITIVE N	EGATIVE V
TEST PERSONNEL EZ & JE	
ADDITIONAL COMMENTS:	



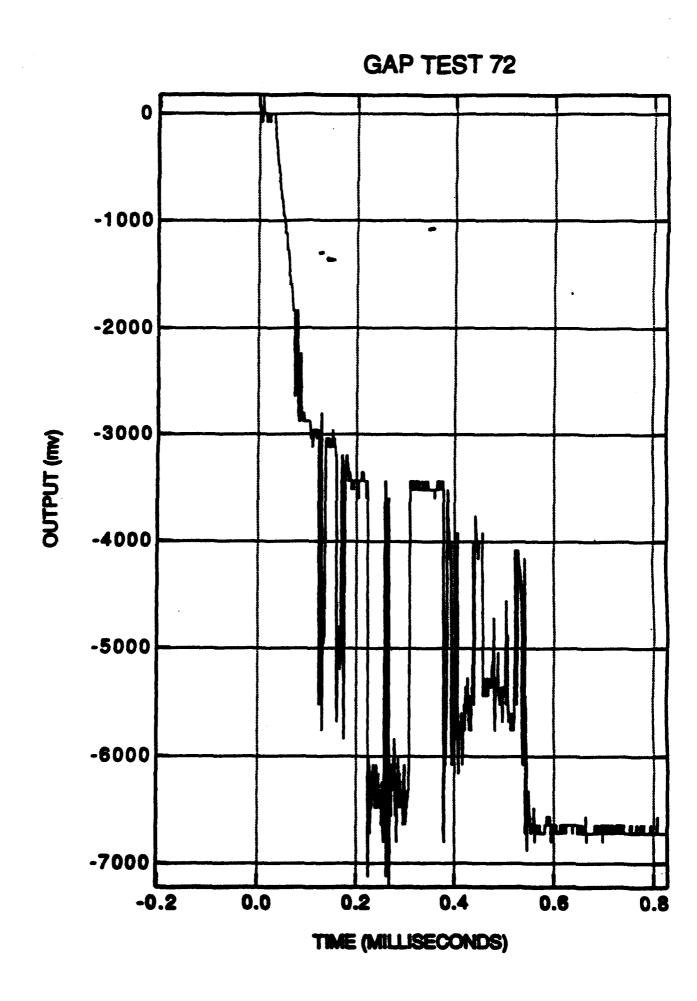


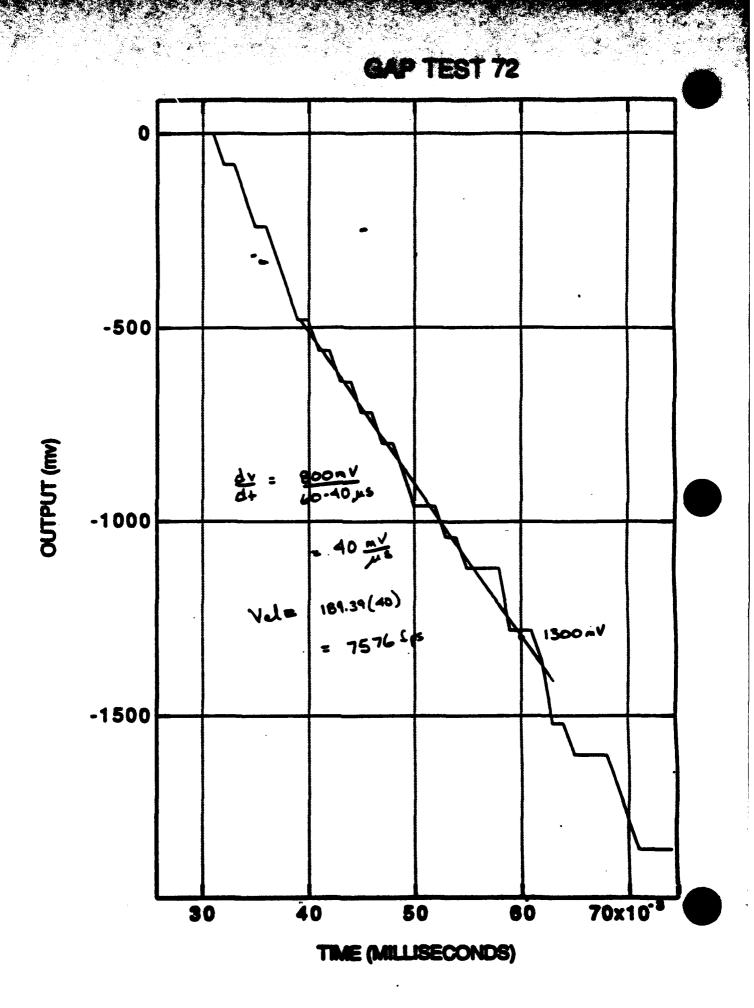


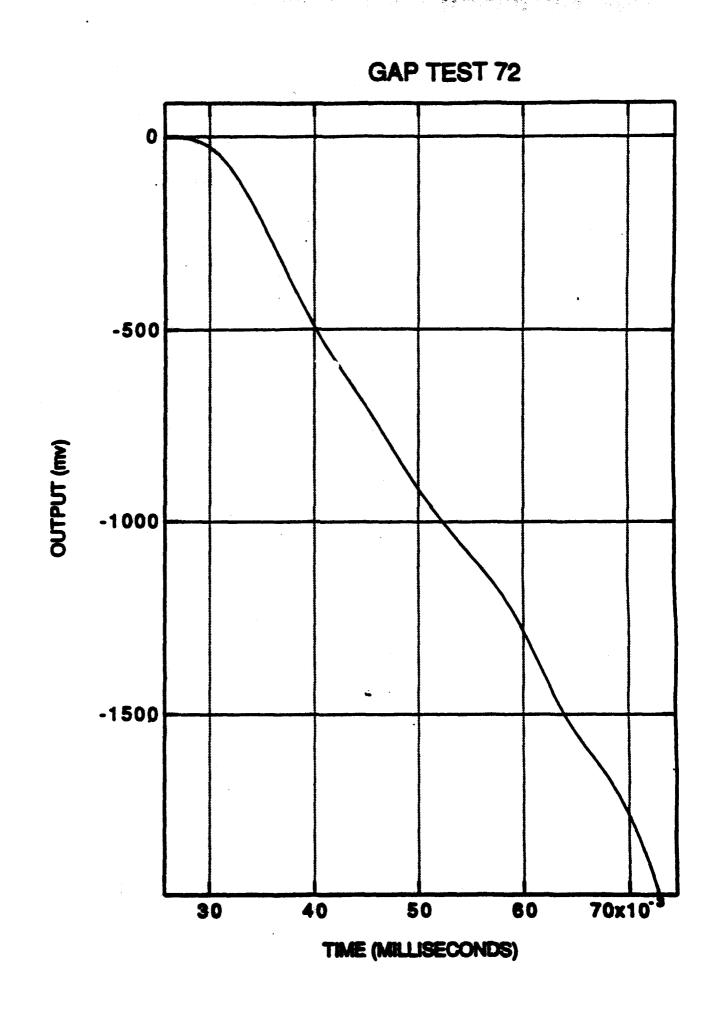




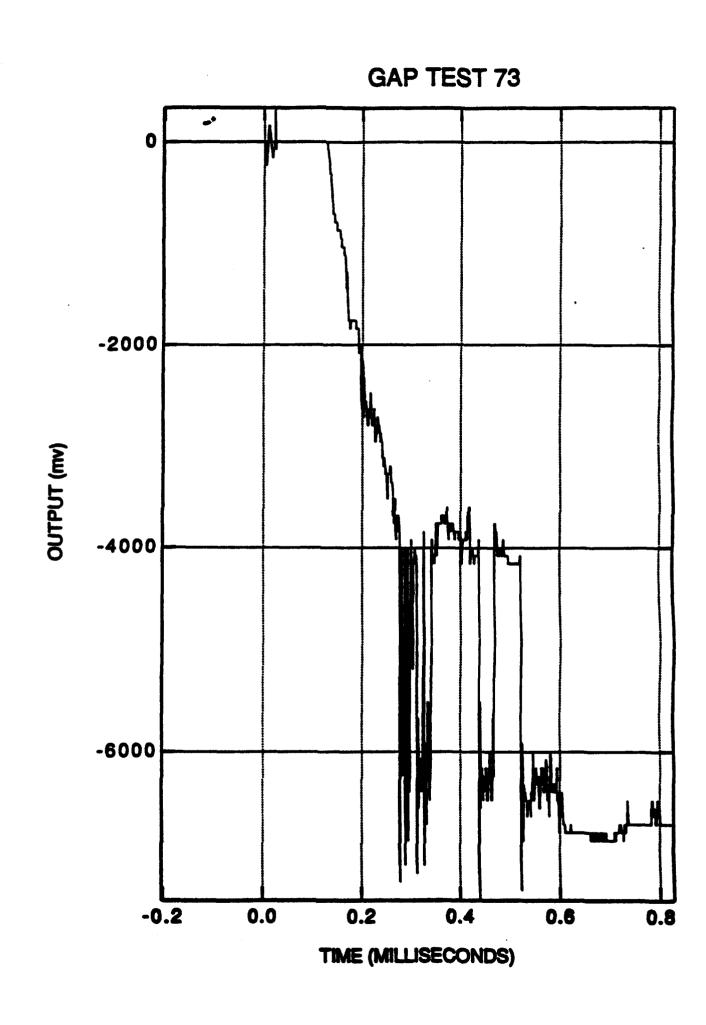
TEST NO. 72	DATE 10/14/92
SOIL SAMPLE NO. EP-CF-11E-C-3'	TEMPERATURE
RESULTS	٠
PIPE SPLIT NOYES	LENGTH OF SPLIT
PIPE FRAGMENTED NO VES	NO. OF PIECES
HOLE PUMCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 7576 FPS	
STABLE DECAYI	NG INCREASING_
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL EZ 4 1	E.
ADDITIONAL COMMENTS:	

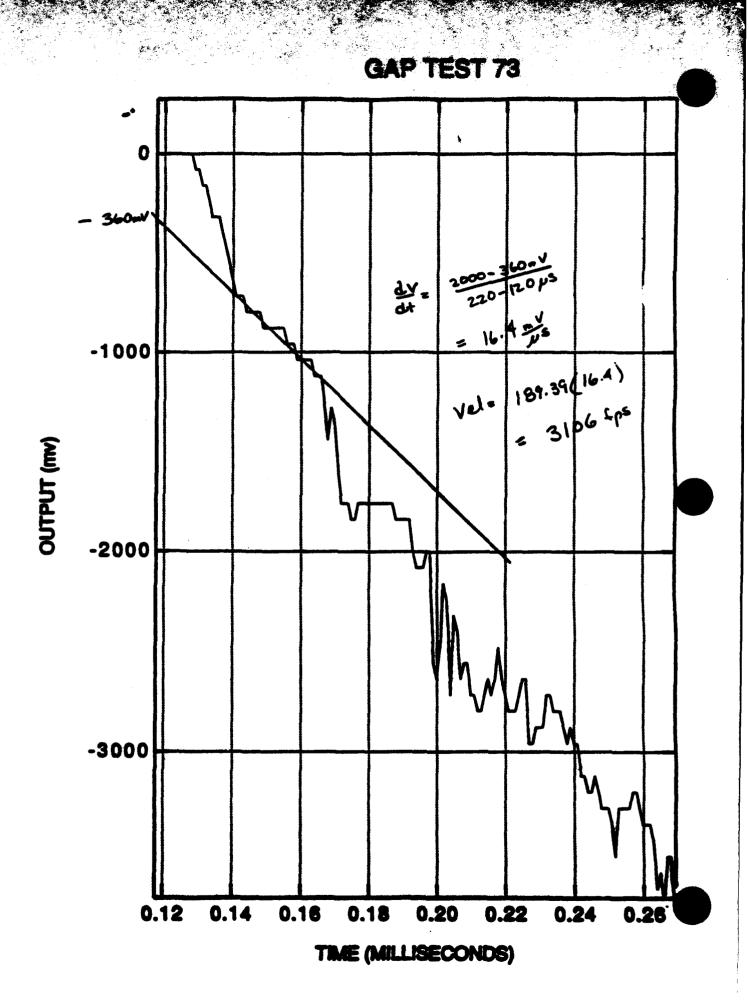


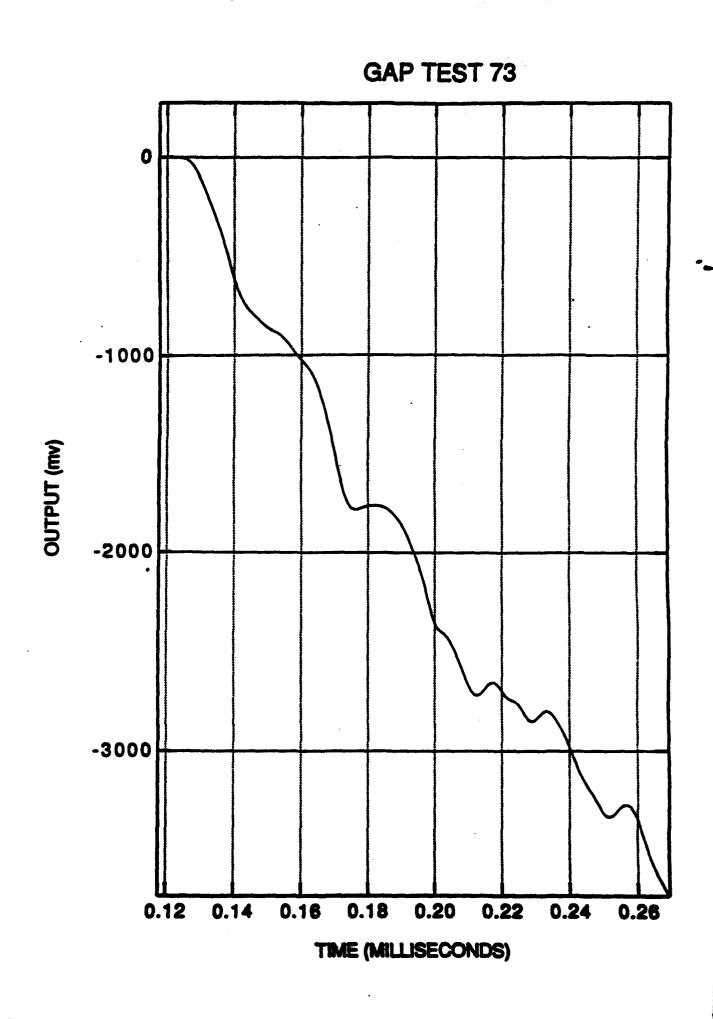




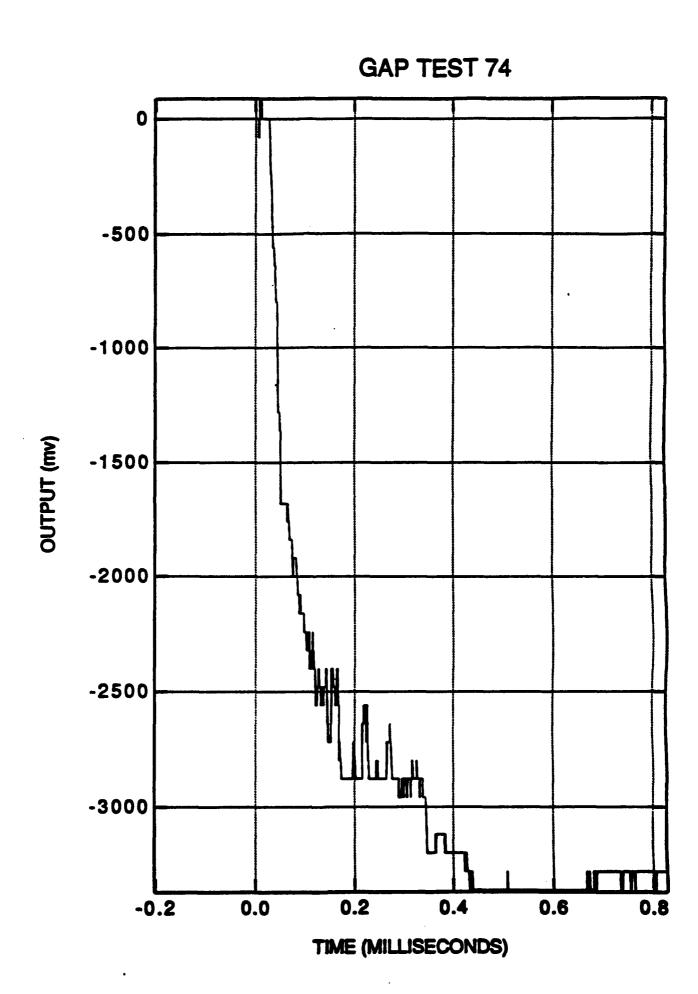
TEST NO	DATE 10/16/92
SOIL SAMPLE NO. 58-01-006-0-1'	TEMPERATURE 82
RESULTS	•
PIPE SPLIT NO YES	
PIPE FRAGMENTED NO VES	
HOLE PUNCHED IN WITNESS PLATE NO	YES SIZE
VELOCITY: PEAK 3106 FPS	
STABLE DECAYII	INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL EZ & JE	







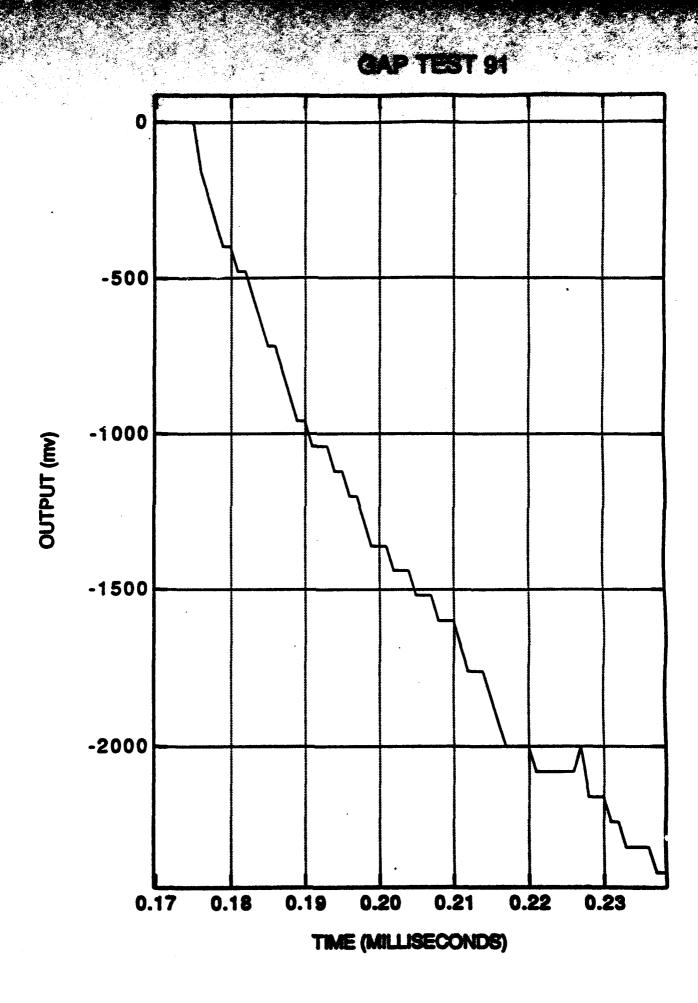
NO. 74	. <u>3 B - 01 - 00</u>	- 06-0-1'	DATE	0/16/93 E 90°	_
_TS			•		
PUNCHED II	N WITNESS	PLATE NO_	V YES	SIZE	
CITY: PI	EAK <u>6726</u>	FPS DECAYI	NG V	NCREASING	
PERSONNEL	E3	E & JE	<u></u>		
	SAMPLE NO. TS SPLIT FRAGMENTE: PUNCHED II CITY: P! S' ALL RESULT	SPLIT NO FRAGMENTED NO PUNCHED IN WITNESS CITY: PEAK	SAMPLE NO. 38-01-006-0-1' TS SPLIT NOYES FRAGMENTED NOYES PUNCHED IN WITNESS PLATE NO_ CITY: PEAK FPS STABLE DECAYI ALL RESULT POSITIVE	SAMPLE NO. 38-01-006-0-1 TEMPERATURE TS SPLIT NO YES LENGTH OF FRAGMENTED NO YES NO. OF PIE PUNCHED IN WITNESS PLATE NO YES CITY: PEAK 6729 FPS STABLE DECAYING I ALL RESULT POSITIVE NEGATIVE	SAMPLE NO. 38-01-006-0-1' TEMPERATURE 96° TS SPLIT NO YES LENGTH OF SPLIT FRAGMENTED NO YES NO. OF PIECES PUNCHED IN WITNESS PLATE NO YES SIZE SIZE

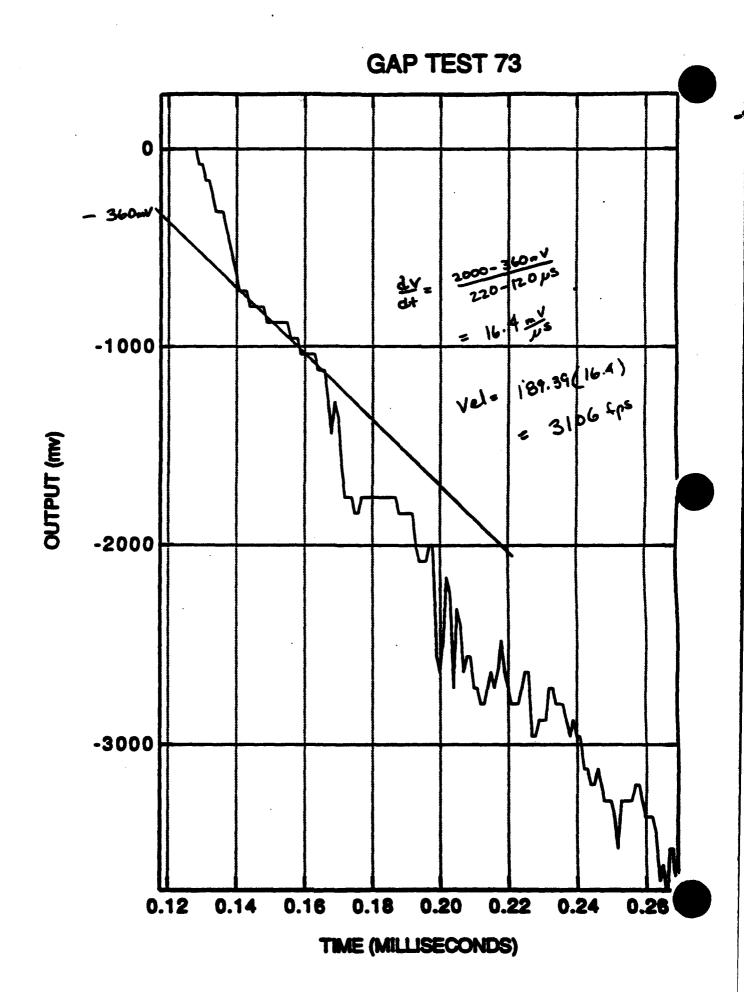


PROJECT 01-5132-001

TEST NO. 91	DATE 10-20-92
SOIL SAMPLE NO. EP-C1-113	TEMPERATURE 86
RESULTS	•
PIPE SPLIT NO YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 6313 FPS	
STABLE DECAYI	NGINCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL TOE 7ACh	·
ADDITIONAL COMMENTS.	

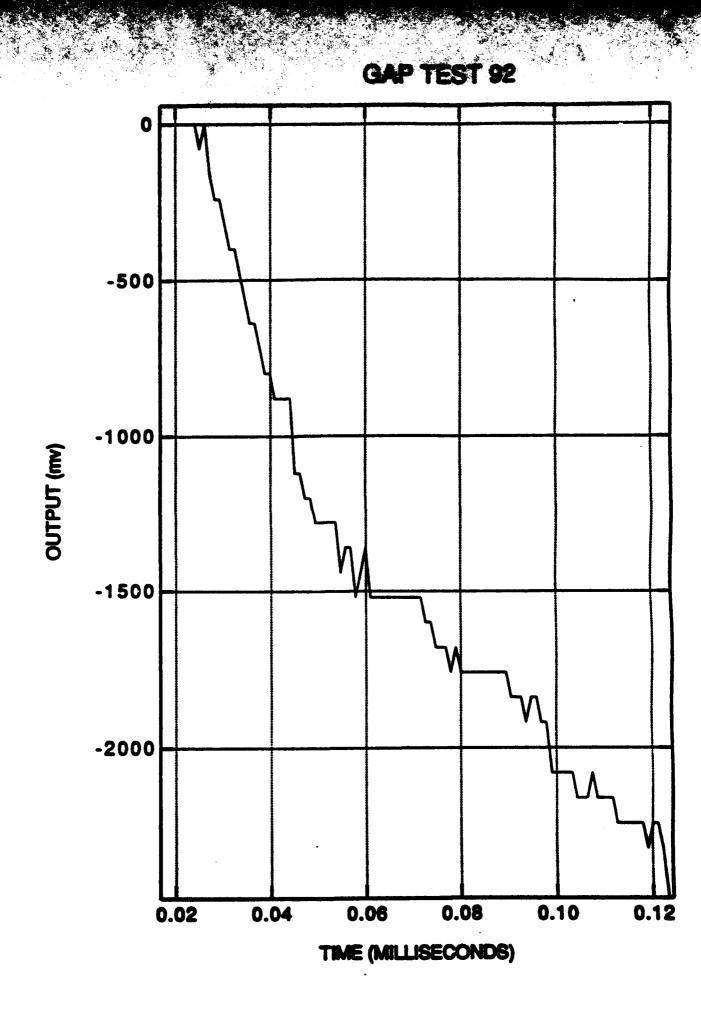
TEST NO. 73 DATE 10/16/92
SOIL SAMPLE NO. SB-01-006-0-1' TEMPERATURE BJ
Spotu To
RESULTS
PIPE SPLIT NO VES LENGTH OF SPLIT
PIPE FRAGMENTED NO. VES NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO YES SIZE
VELOCITY: PEAK 3106 FPS
STABLE DECAYING INCREASING
OVERALL RESULT POSITIVE NEGATIVE
TEST PERSONNEL EZ
ADDITIONAL COMMENTS:





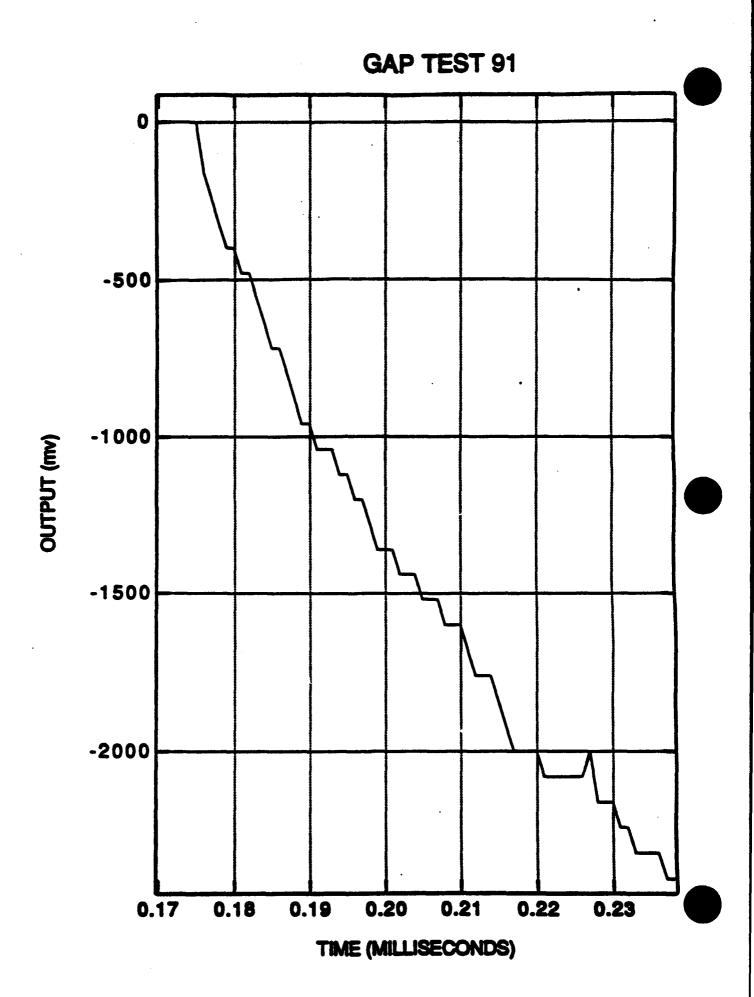
	DATE 10-20-92
SOIL SAMPLE NO. EP-01-113	TEMPERATURE 54
RESULTS	
PIPE SPLIT NO VYES	
PIPE FRAGMENTED NO YES	•
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 2794 FPS	
STABLE DECAYING	INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL	<u> </u>
ADDITIONAL COMMENTS.	

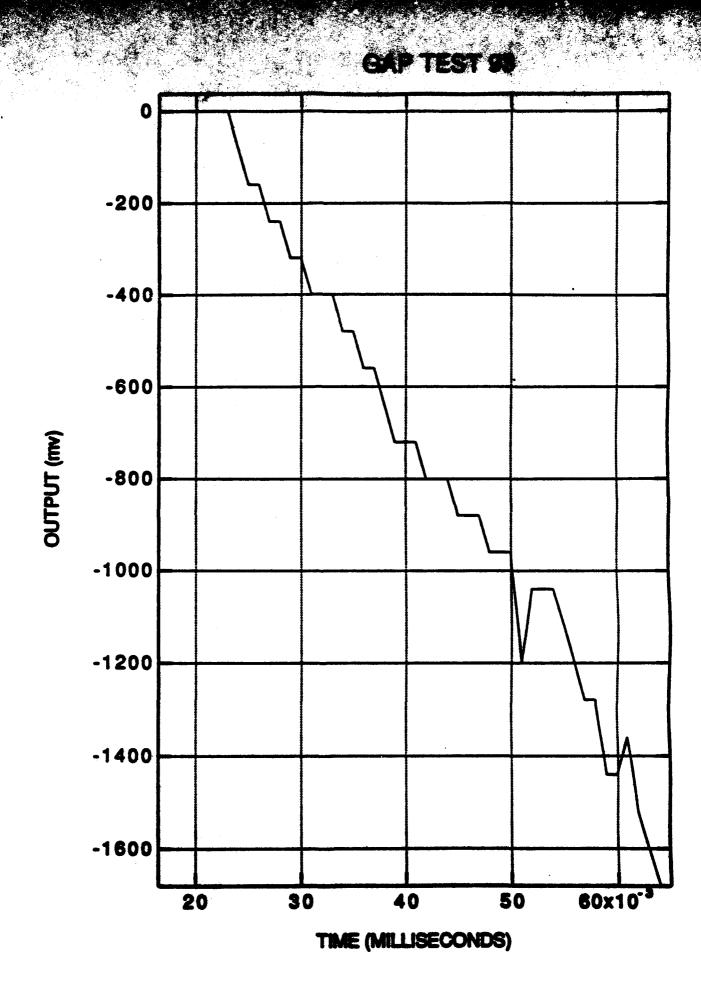
TEST NO. 74 SOIL SAMPLE NO. 36-01-006-0-1' TEMPI	10/16/93 ERATURE 90°
RESULTS	•
PIPE SPLIT NO YES LENGT	TH OF SPLIT
PIPE FRAGMENTED NO. YES NO. (
HOLE PUNCHED IN WITNESS PLATE NO	ES SIZE
VELOCITY: PEAK 6729 FPS STABLE DECAYING	INCREASING
OVERALL RESULT POSITIVE NEGAT	
TEST PERSONNEL EZ & JE	



TEST NO	DATE 10-20-92
SOIL SAMPLE NO. EP-C1-113	TEMPERATURE 36
RESULTS	•
PIPE SPLIT NO YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	•
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 6313 FPS	
STABLE DECAYII	GINCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL	

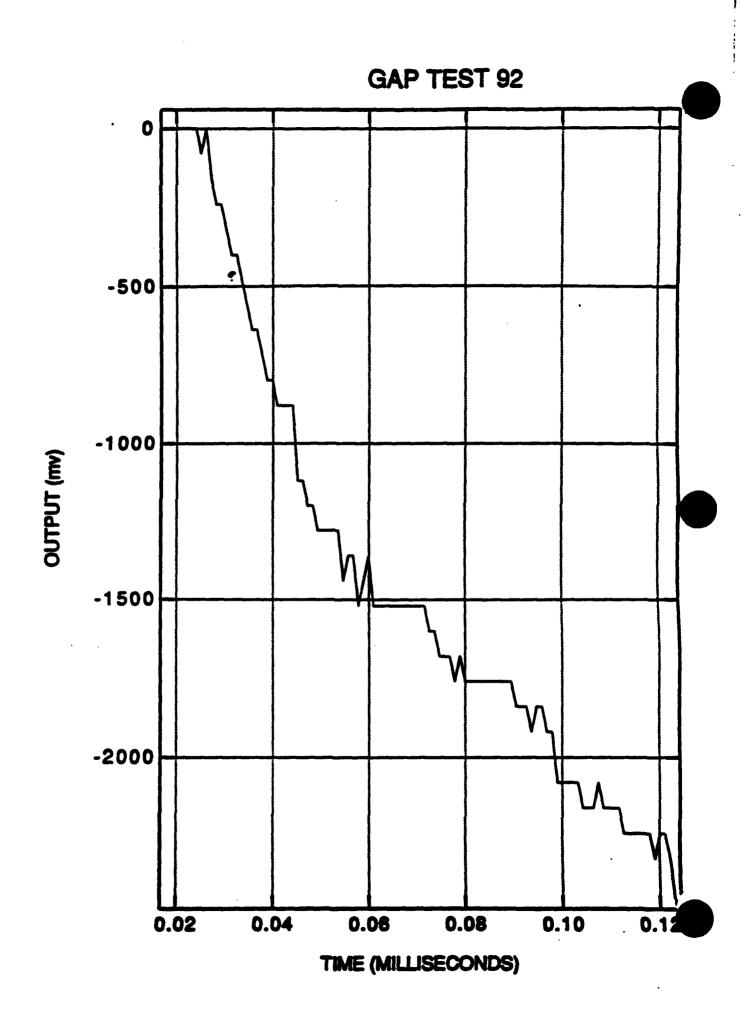
SOIL SAMPLE NO. ELECTRICATION TO	ATE 12/36/93
SOIL SAMPLE NO. BURILLINE	EMPERATURE 86
RESULTS	
PIPE SPLIT NO_V YES L	ENGTH OF SPLIT
PIPE FRAGMENTED NO YES N	•
HOLE PUNCHED IN WITNESS PLATE NO	YES SIZE
VELOCITY: PEAK 6629 FPS	
STABLE DECAYING	INCREASING
OVERALL RESULT POSITIVE N	EGATIVE
TEST PERSONNEL EZ & JE	
ADDITIONAL COMMENTS.	

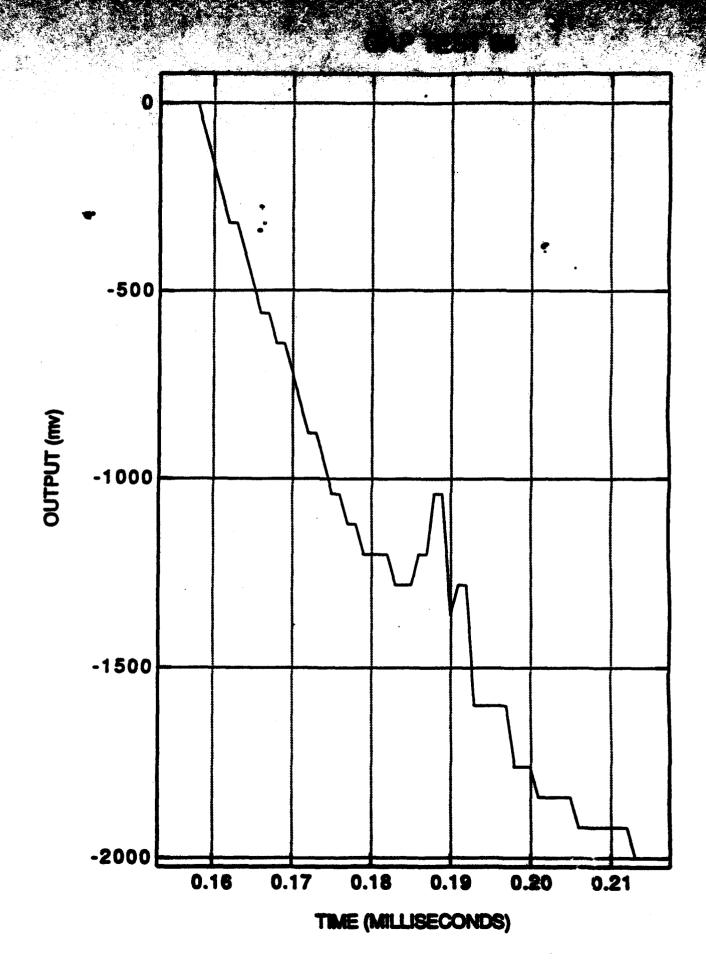




SOIL SAMPLE NO. EP-UI-113	DATE 10-20-92 TEMPERATURE 84°
RESULTS	• •
PIPE SPLIT NO VES	
PIPE FRAGMENTED NO YES	•
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 2794 FPS	
STABLE DECAYI	NG INCREASING
OVERALL RESULT POSITIVE	
TEST PERSONNEL	h

TEST NO94	DATE 10/21/92	
SOIL SAMPLE NO. S6-01-008	TEMPERATURE 76	
RESULTS		
PIPE SPLIT NO VES		
PIPE FRAGMENTED NO YES		
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE	
VELOCITY: PEAK 6764 FPS		
STABLE DECAYII	NGINCREASING	
OVERALL RESULT POSITIVE NEGATIVE		
TEST PERSONNEL EZ & SE.		
ADDITIONAL COMMENTS.		

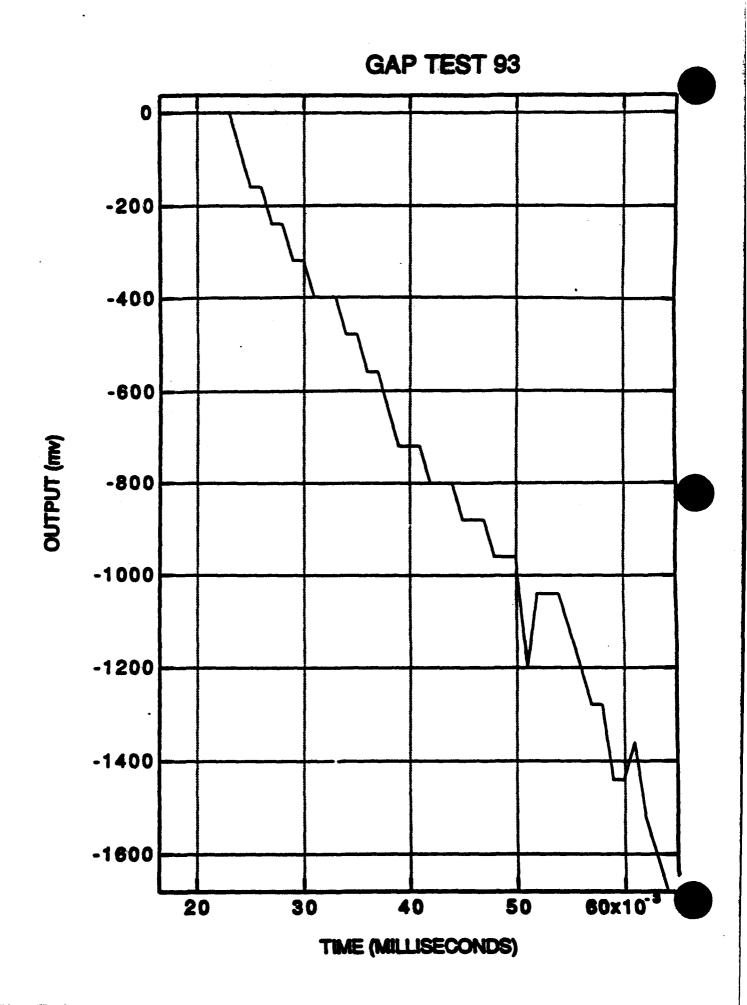


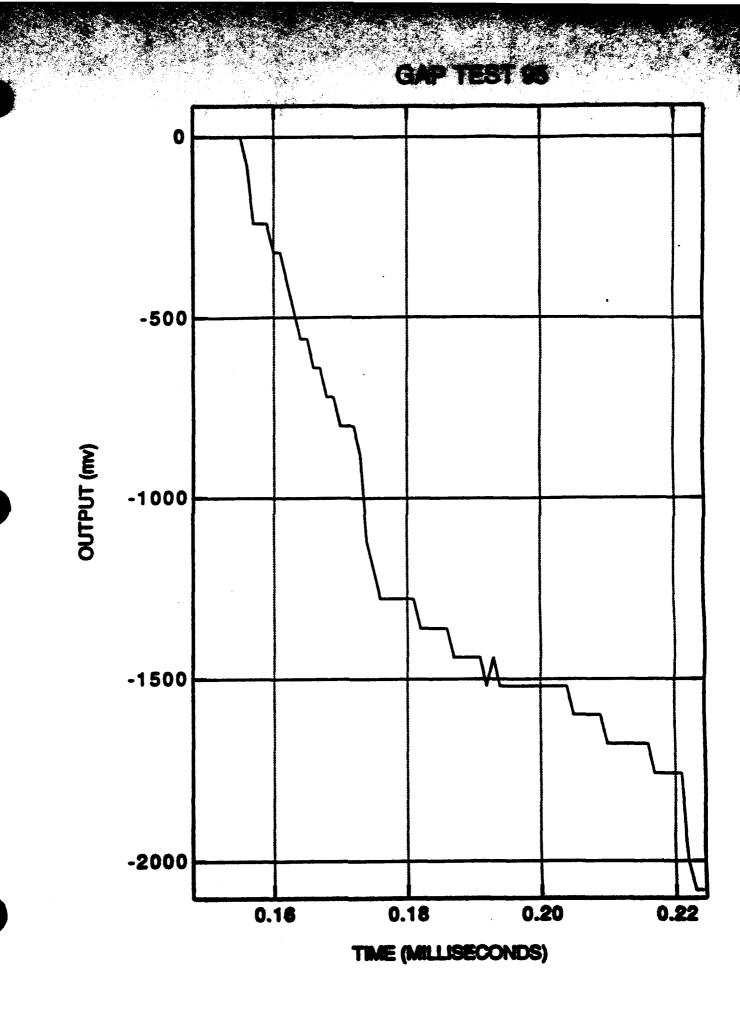


SOIL SAMPLE NO. ERICITIUM	DATE 15/30/92
SOIL SAMPLE NO. ELA CUITILIAN	TEMPERATURE 86
RESULTS	
PIPE SPLIT NO V YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO_	✓ YES SIZE
VELOCITY: PEAK 6629 FPS	
STABLE DECAYI	NG INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL EZ & JE	

ADDITIONAL COMMENTS:

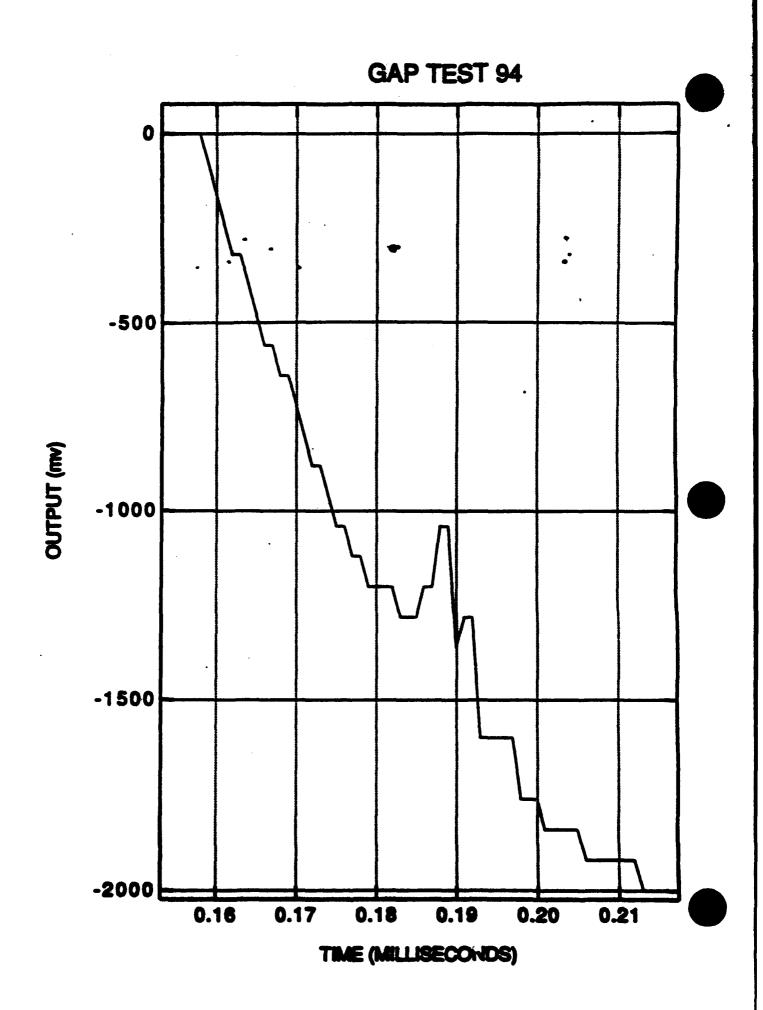
TEST NO. 45	DATE 10/21/92
SOIL SAMPLE NO. EP-CI-CGI- 1-2'	TEMPERATURE
RESULTS	•
PIPE SPLIT NO YES	LENGTH OF SPLIT
PIPE FRAGMENTED NO_V YES	NO. OF PIECES
PIPE SPLIT NO	VES SIZE
VELOCITY: PEAK 3024 FPS	/
STABLE DECAYIN	INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL EZ & JE	
ADDITIONAL COMMENTS:	

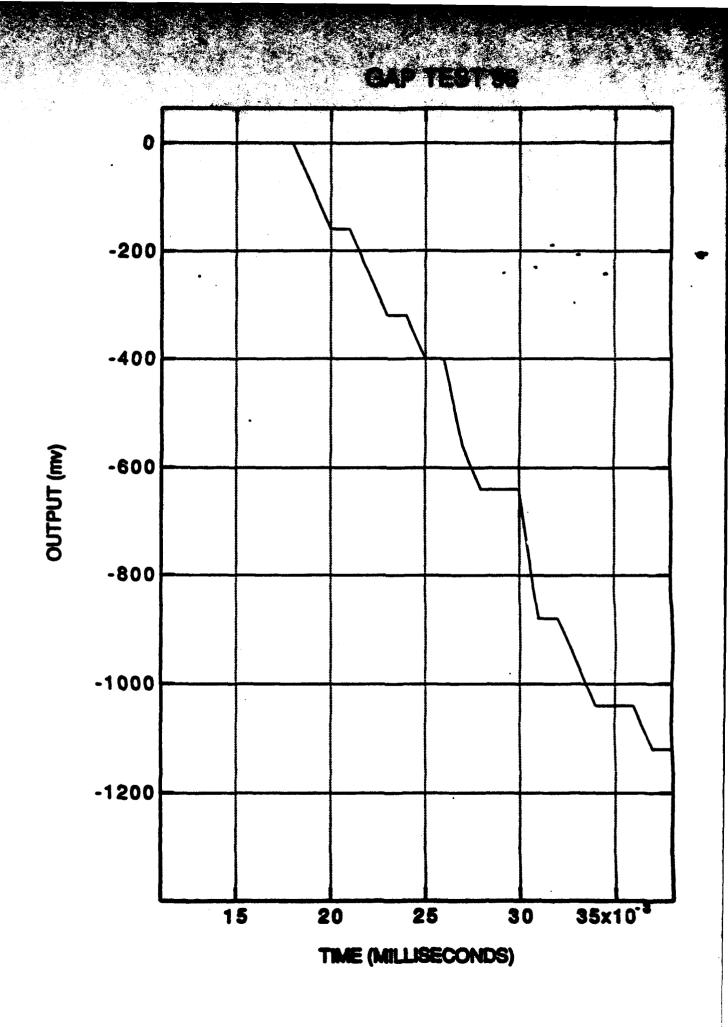




TEST NO. 94	DATE 10/21/92
SOIL SAMPLE NO. S6-01-006	TEMPERATURE 76
RESULTS	
PIPE SPLIT NO VES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO_	YE8 SIZE
VELOCITY: PEAK 6764 FPS	
	NGINCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL EZ & JE.	
ADDITIONAL COMMENTS:	

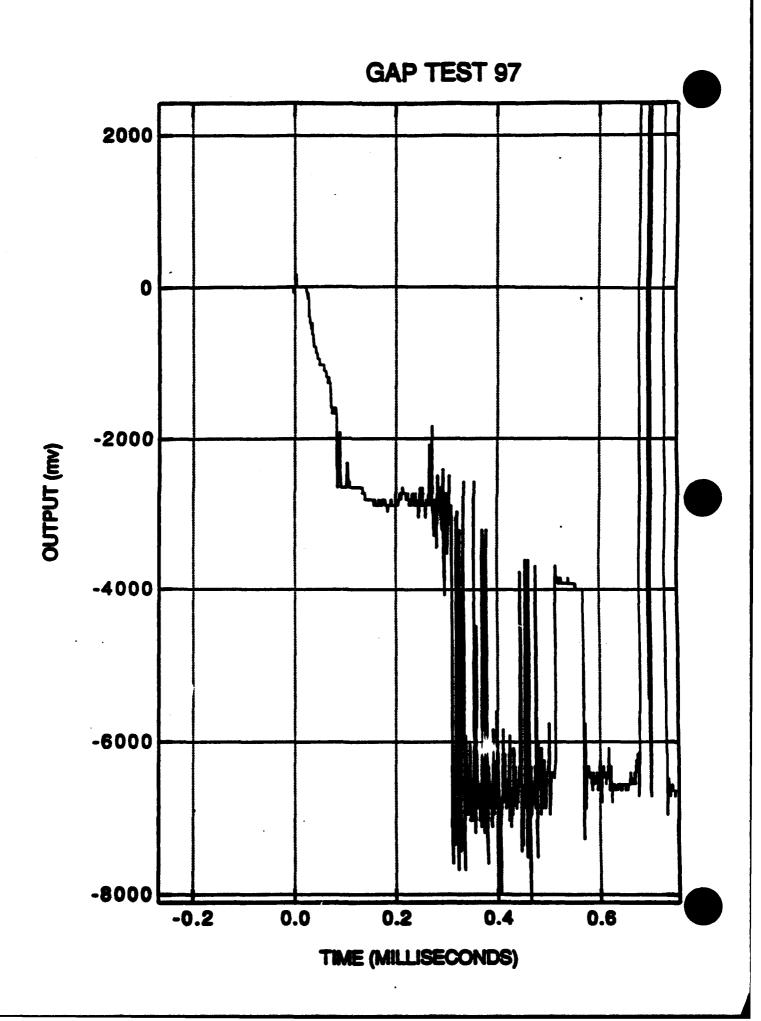
TEST NO. 96	DATE 10/21/92
SOIL SAMPLE NO. <u>EP-01-091</u> -1-2'	TEMPERATURE 64°
RESULTS	
PIPE SPLIT NO V YES	LENGTH OF SPLIT
HOLE PUNCHED IN WITNESS PLATE NO	YES SIZE
VELOCITY: PEAK 1690 FPS	
	GINCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL EZ & JE	
ADDITIONAL COMMENTS.	

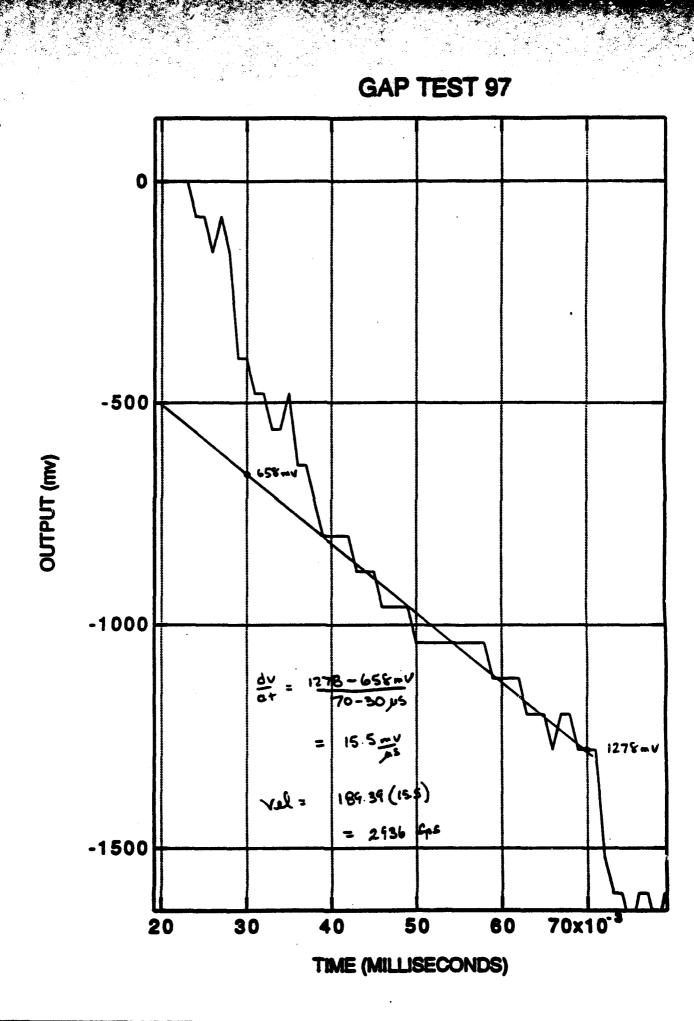


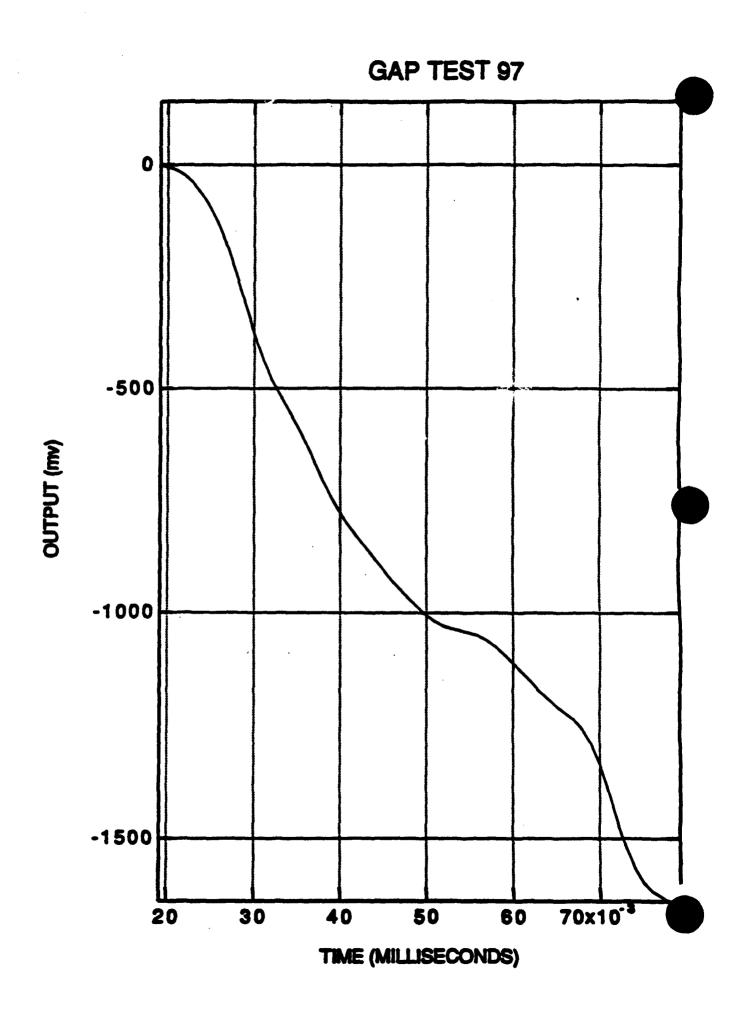


TEST NO. 45 DATE 10/21/92
SOIL SAMPLE NO. EP-CI-CGI-1-2' TEMPERATURE E
RESULTS
PIPE SPLIT NO YES LENGTH OF SPLIT PIPE FRAGMENTED NO YES NO. OF PIECES
PIPE FRAGMENTED NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO YES SIZE
VELOCITY: PEAK 3024 FPS
STABLE DECAYING INCREASING
OVERALL RESULT POSITIVE NEGATIVE
TEST PERSONNEL EZ & JE
ABRITIONAL COMMENTS.

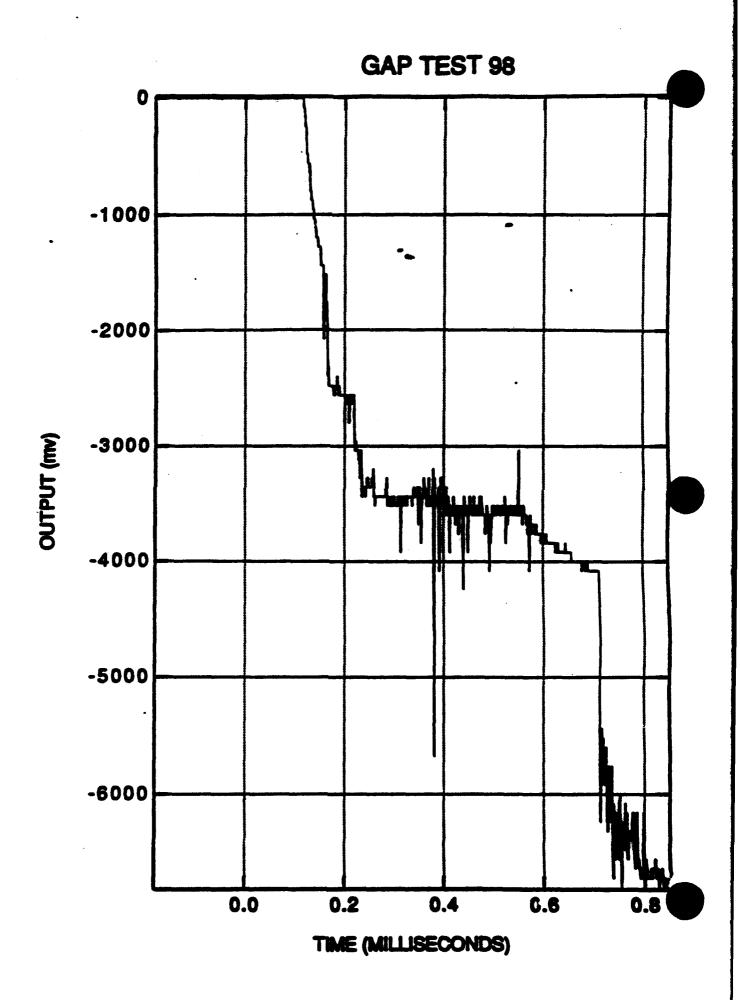
TEST NO. 97	DATE 10/21/92
SOIL SAMPLE NO. 60-01-025 3-3,5	TEMPERATURE 92°
RESULTS	
PIPE SPLIT NO YES PIPE FRAGMENTED NO YES	LENGTH OF SPLIT
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 2936 FPS	
STABLE DECAYIN	INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL EZ \$ JE	·
ADDITIONAL COMMENTS:	

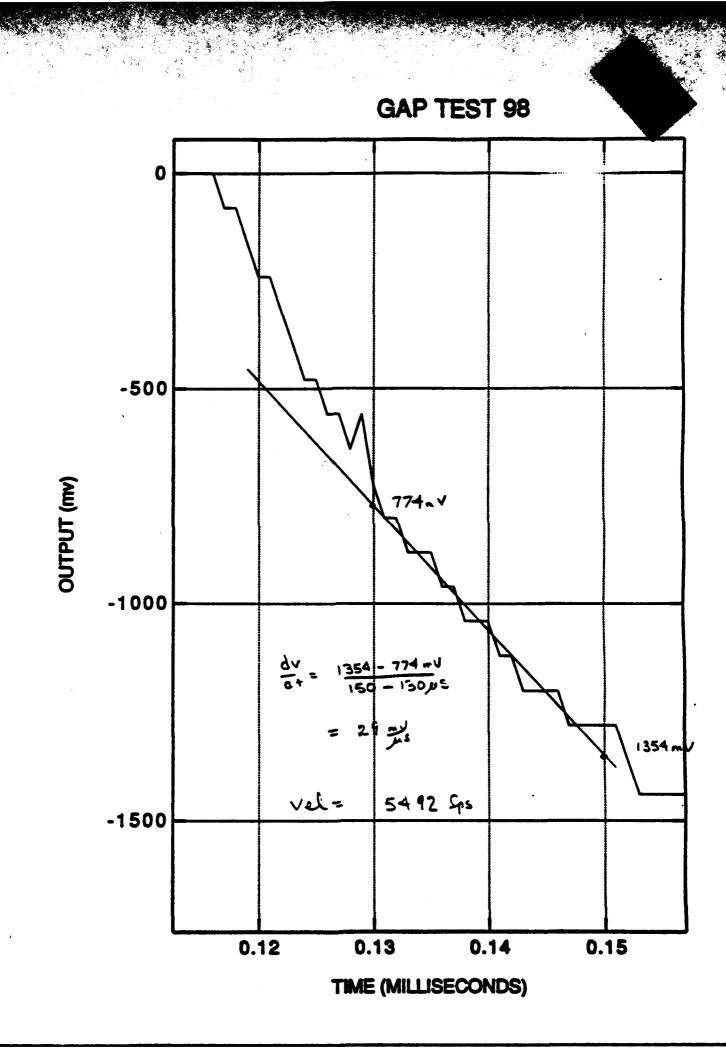


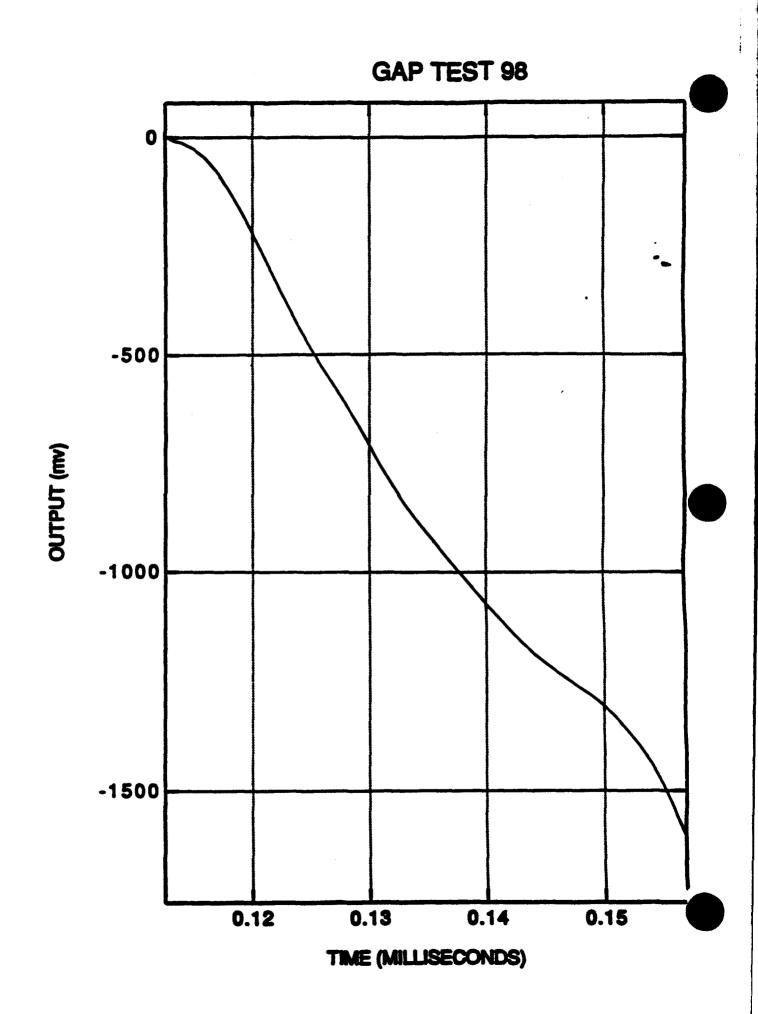




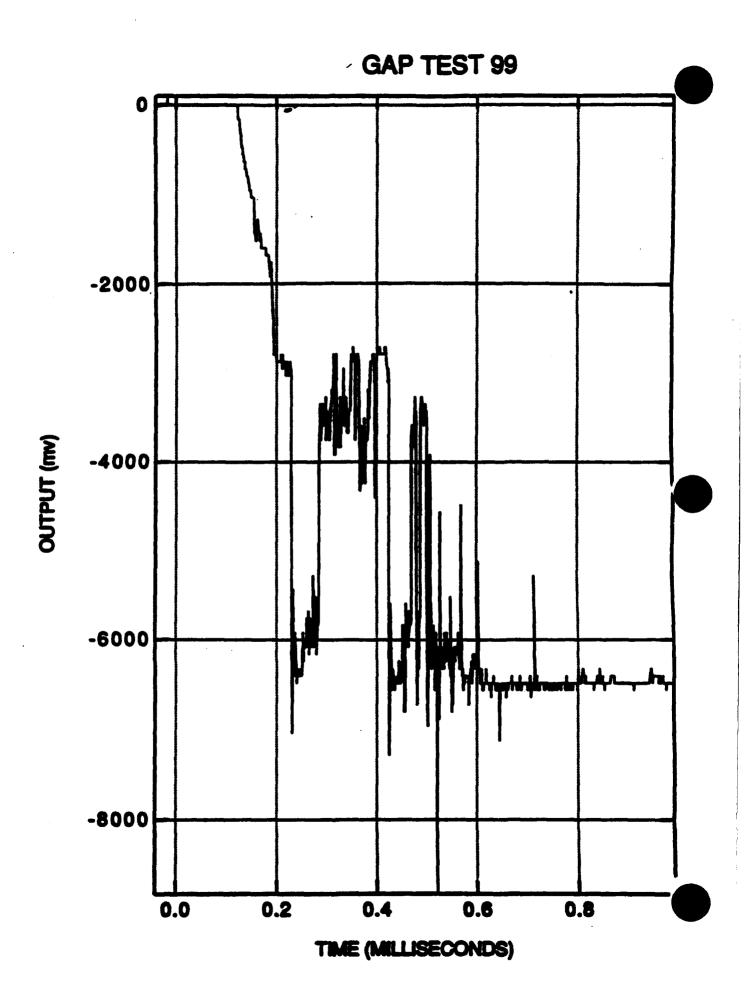
TEST NO
SOIL SAMPLE NO. EP- CI- C25 3-2.5' TEMPERATURE 93"
RESULTS
PIPE SPLIT NO YES LENGTH OF SPLIT
PIPE FRAGMENTED NO. VES NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO V YES SIZE
VELOCITY: PEAK 5492 FPS
STABLE DECAYING INCREASING
OVERALL RESULT POSITIVE NEGATIVE
TEST PERSONNEL EZ & JE
ADDITIONAL COMMENTS:

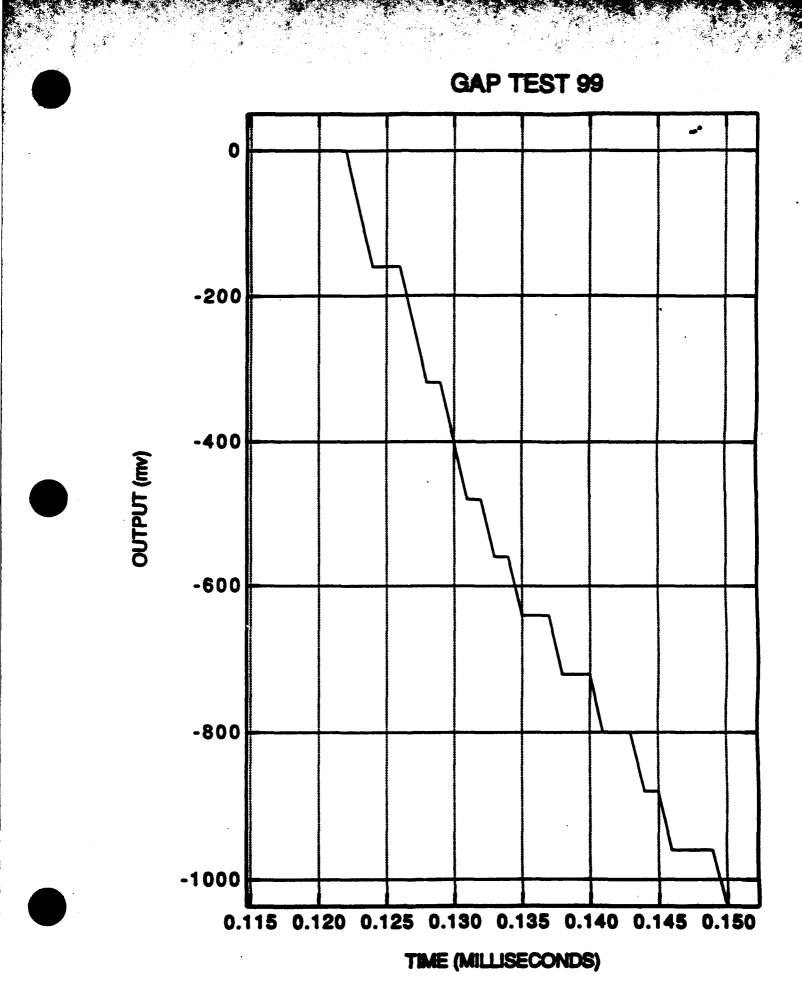


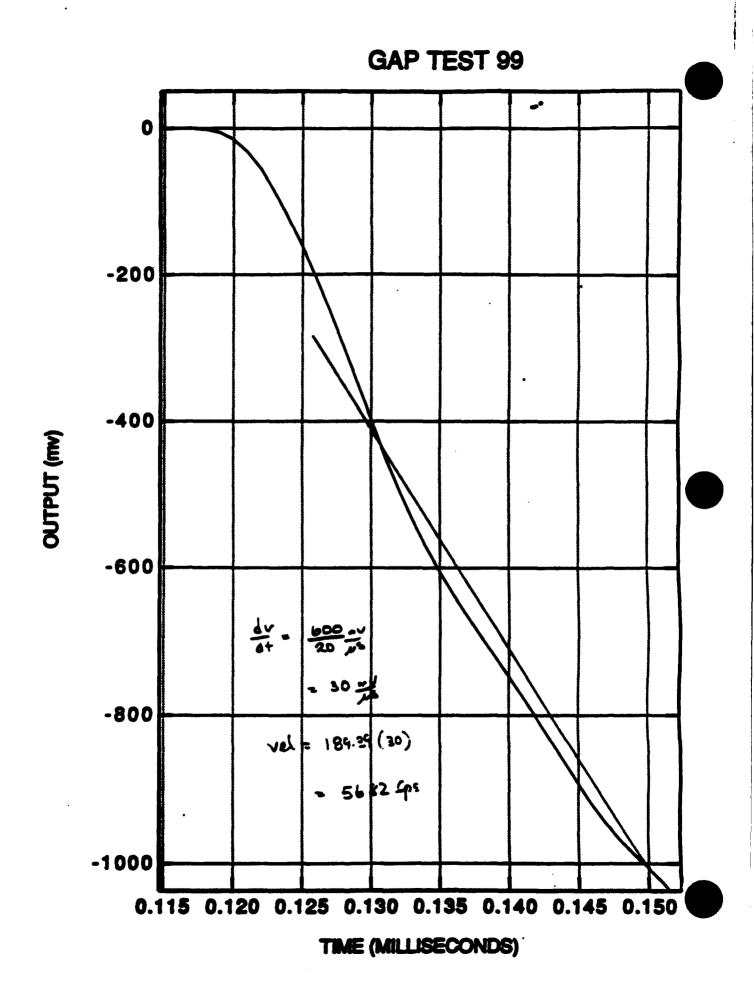




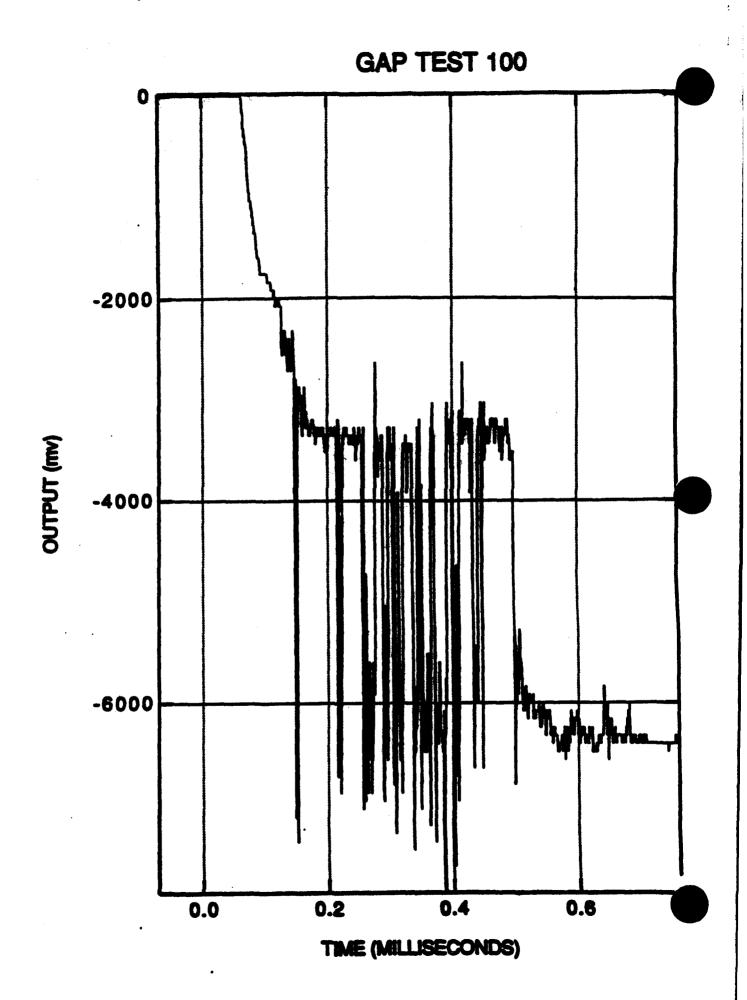
TEST NO. 99 DATE 10/31/92
SOIL SAMPLE NO. EP-CI-CG2 D-C.5' TEMPERATURE 9
RESULTS
PIPE SPLIT NO . V YES LENGTH OF SPLIT
PIPE FRAGMENTED NO YES NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO YES SIZE
VELOCITY: PEAK 5685 FPS
STABLE DECAYING INCREASING
OVERALL RESULT POSITIVE NEGATIVE
TEST PERSONNEL EZ \$ SE
ADDITIONAL COMMENTS:

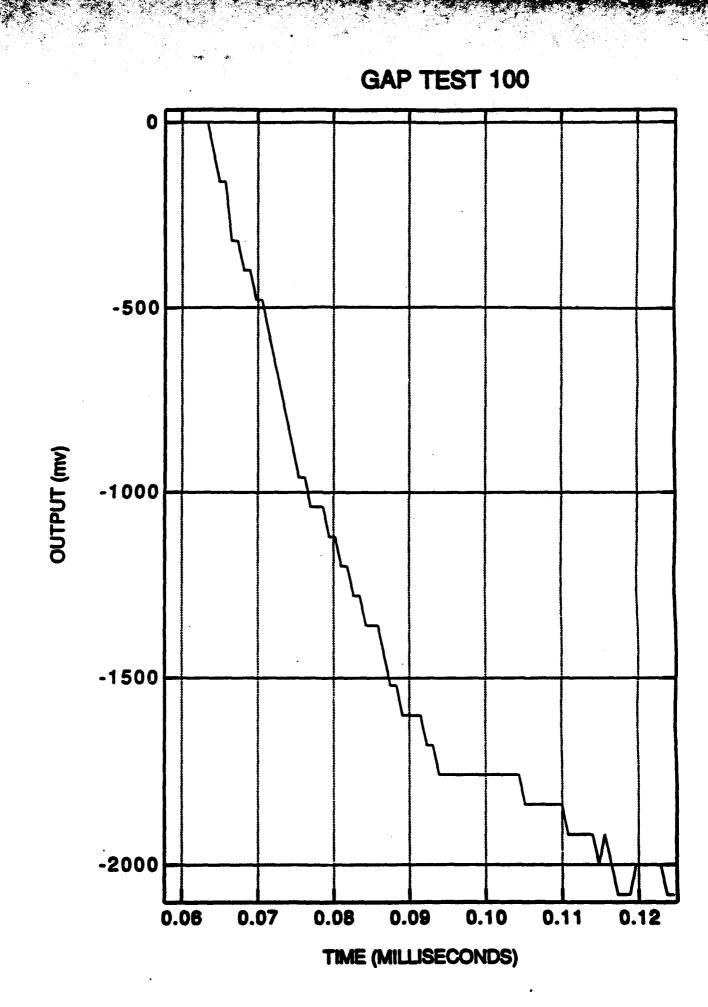


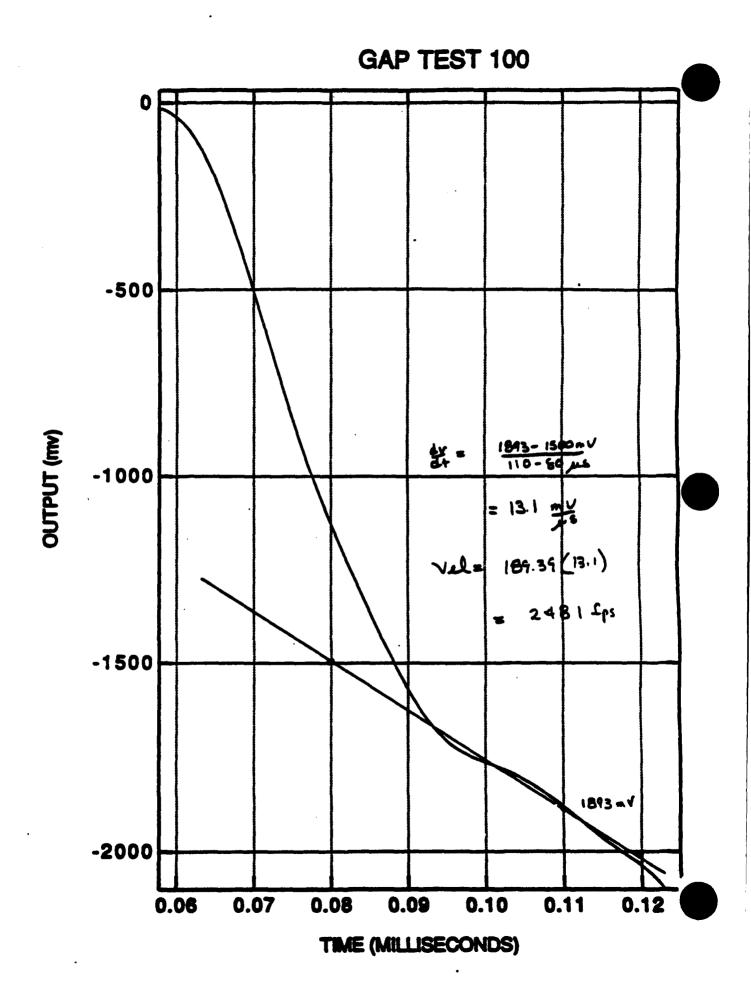




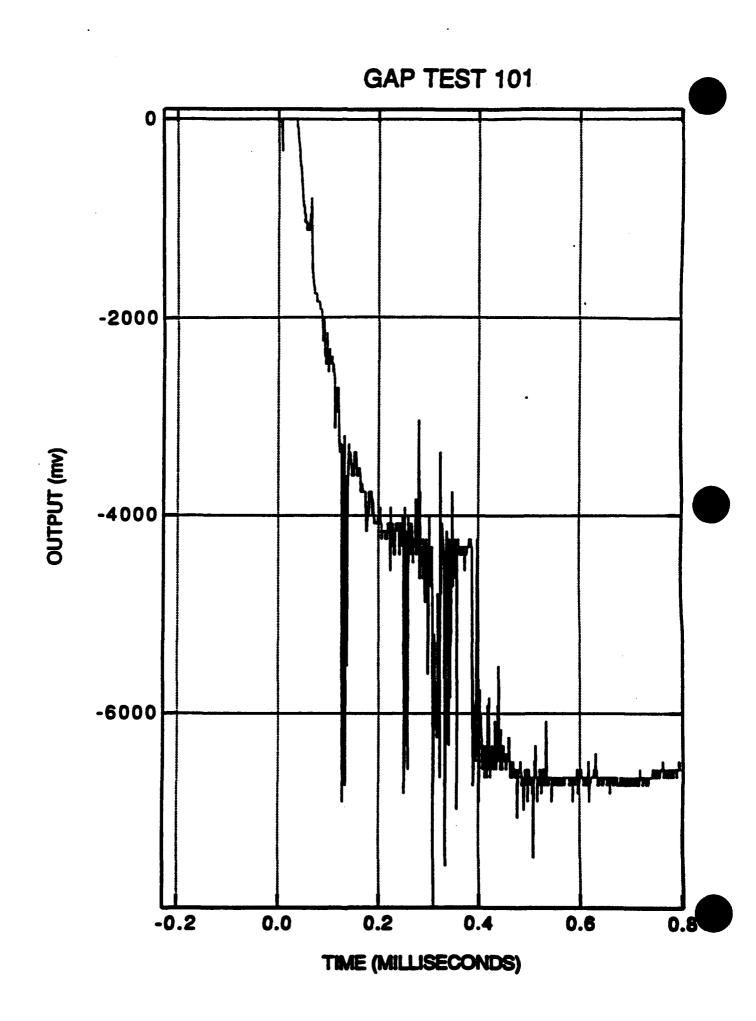
SOIL SAMPLE NO. Fr. of - CED - C - CS' TEMPERATURE 90°
SOIL SAMPLE NO. FOOD - C-CS' TEMPERATURE 90.
RESULTS
PIPE SPLIT NO VES LENGTH OF SPLIT
PIPE FRAGMENTED NO. VES NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO V YES SIZE
VELOCITY: PEAK 2481 FPS
STABLE DECAYING INCREASING
OVERALL RESULT POSITIVE NEGATIVE
TEST PERSONNEL EZ # JE
ADDITIONAL COMMENTS.

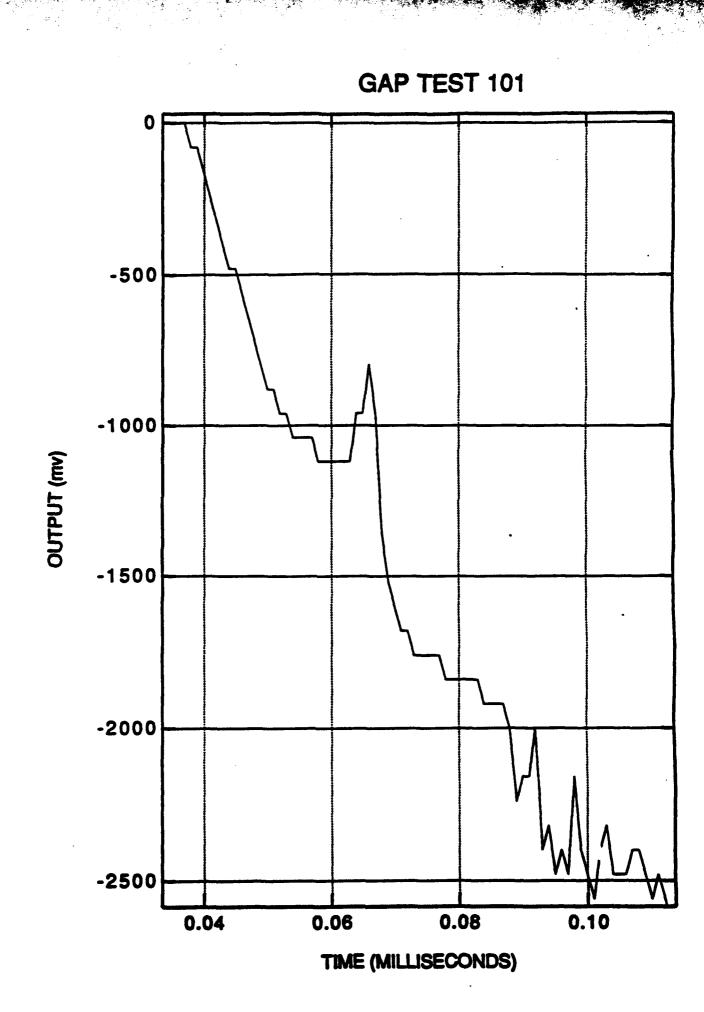


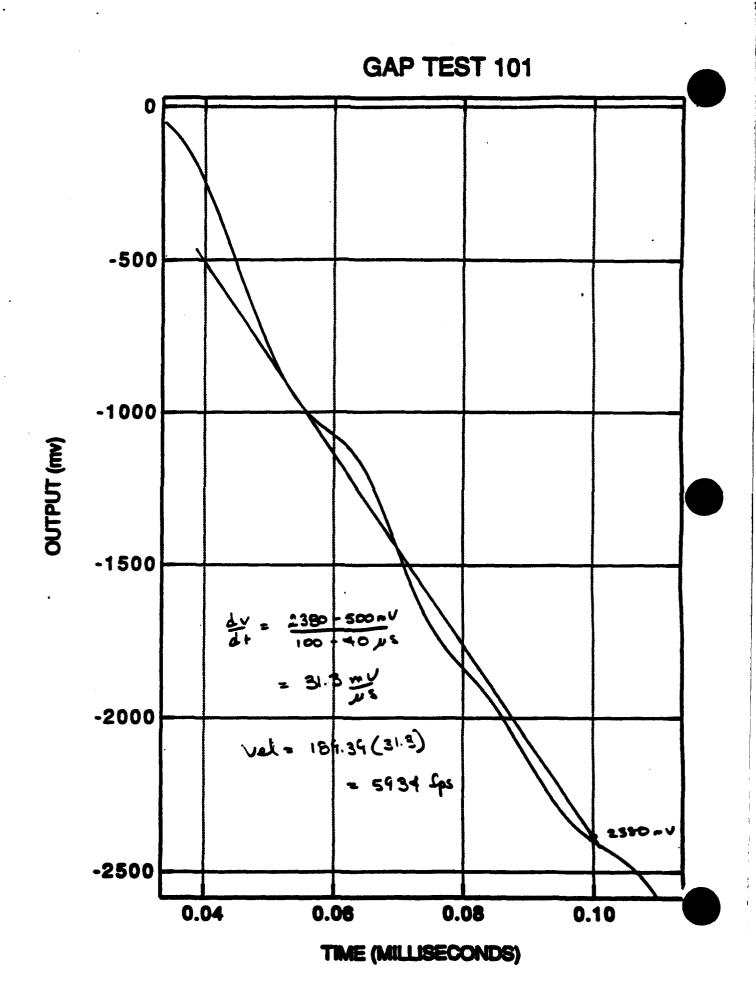




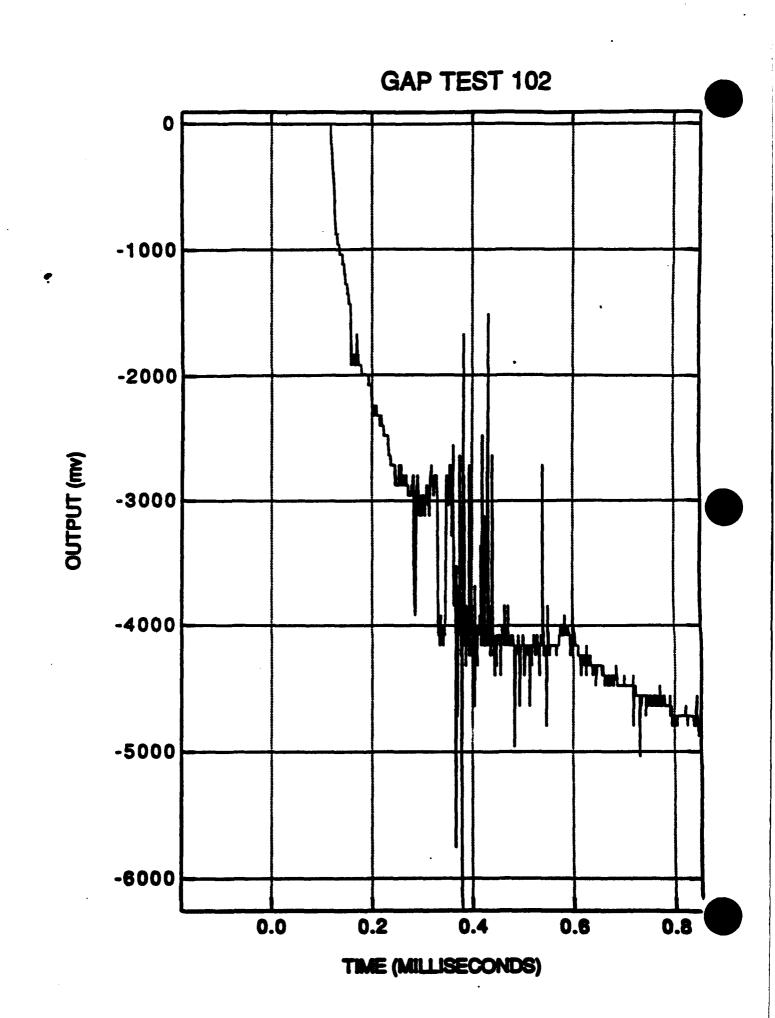
TEST NO. 1C1 DA SOIL SAMPLE NO. EF-CI-C45 3,5-4' TE	TE 10/21/92
SOIL SAMPLE NO. EF-CI-C45 3.5-4' TE	MPERATURE 90°
RESULTS	•
PIPE SPLIT NO_V YES LE	
PIPE FRAGMENTED NO YES NO	•
HOLE PUNCHED IN WITNESS PLATE NO	YES SIZE
VELOCITY: PEAK 5934 FPS	
STABLE DECAYING_	INCREASING
OVERALL RESULT POSITIVE NE	GATIVE V
TEST PERSONNEL EZ 4 JE	
ADDITIONAL COMMENTS.	

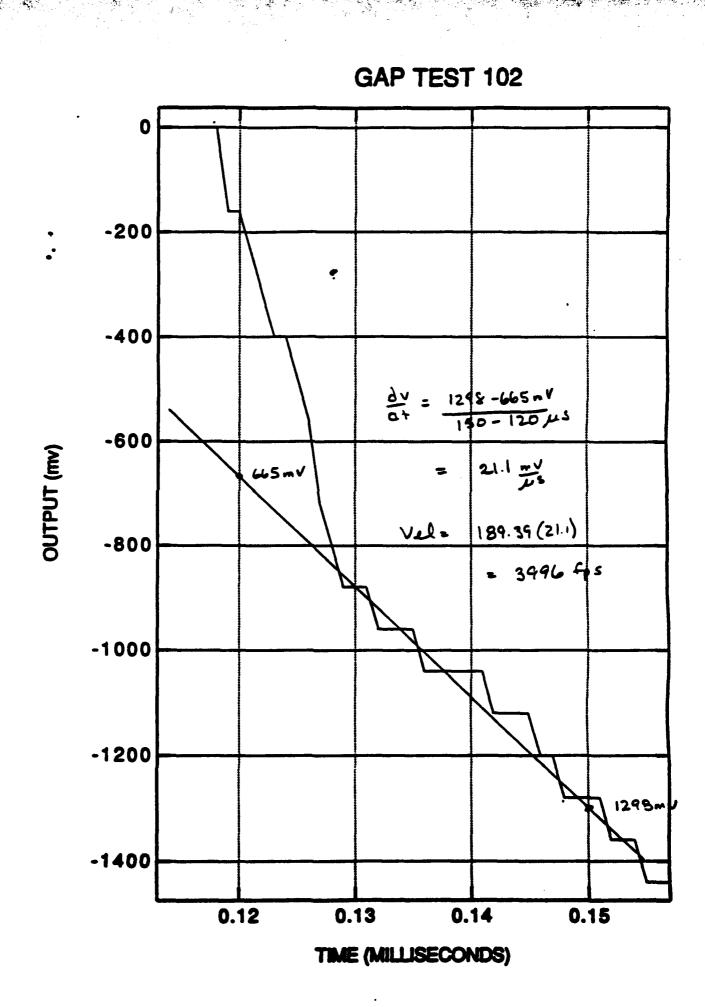


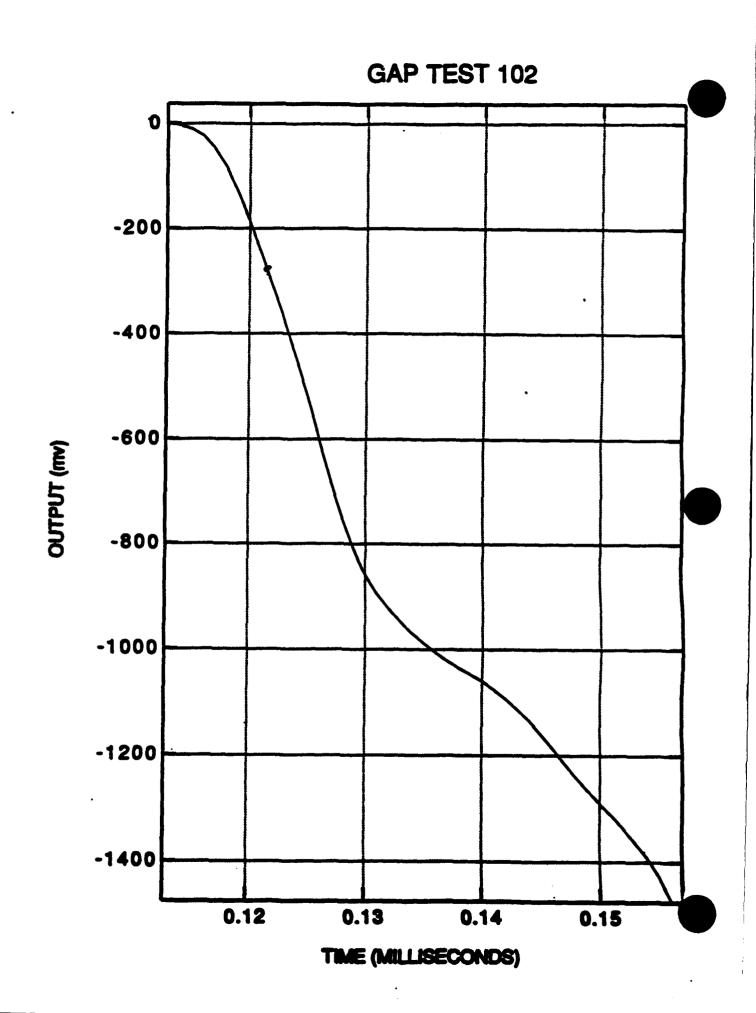




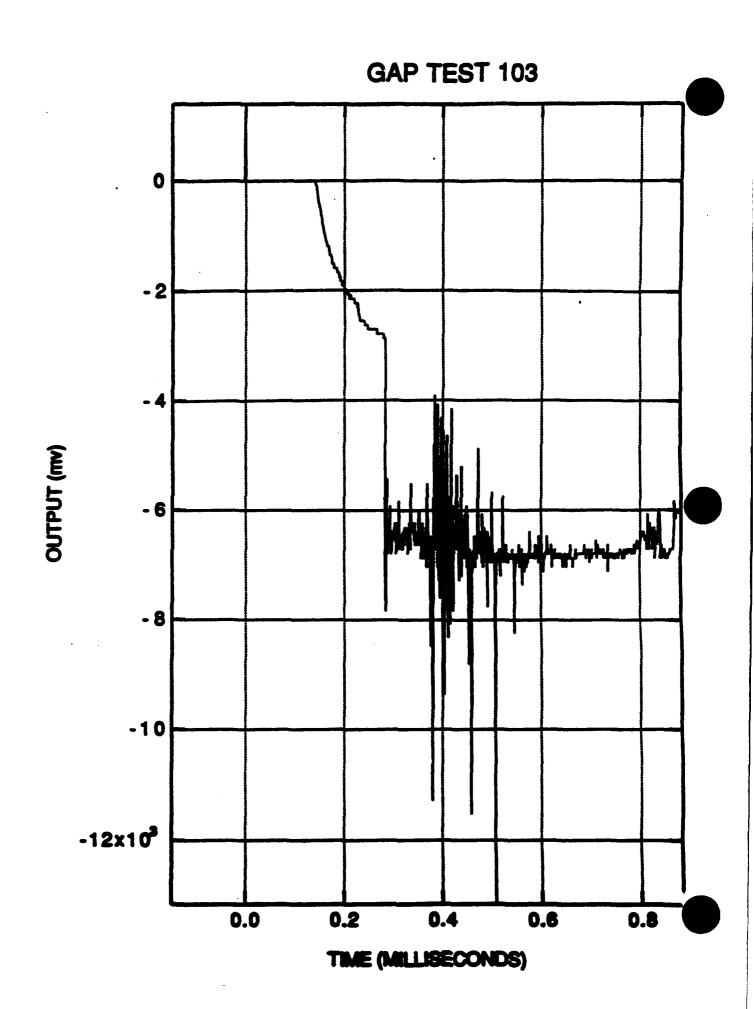
TEST NO. 102 DATE 10/22/92
SOIL SAMPLE NO. EP. 01-045 3,5-4' TEMPERATURE 76°
RESULTS
PIPE FRAGMENTED NO
PIPE FRAGMENTED NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO YES SIZE
VELOCITY: PEAK 3996 FPS
STABLE DECAYING INCREASING
OVERALL RESULT POSITIVE NEGATIVE
TEST PERSONNEL EZ & TE

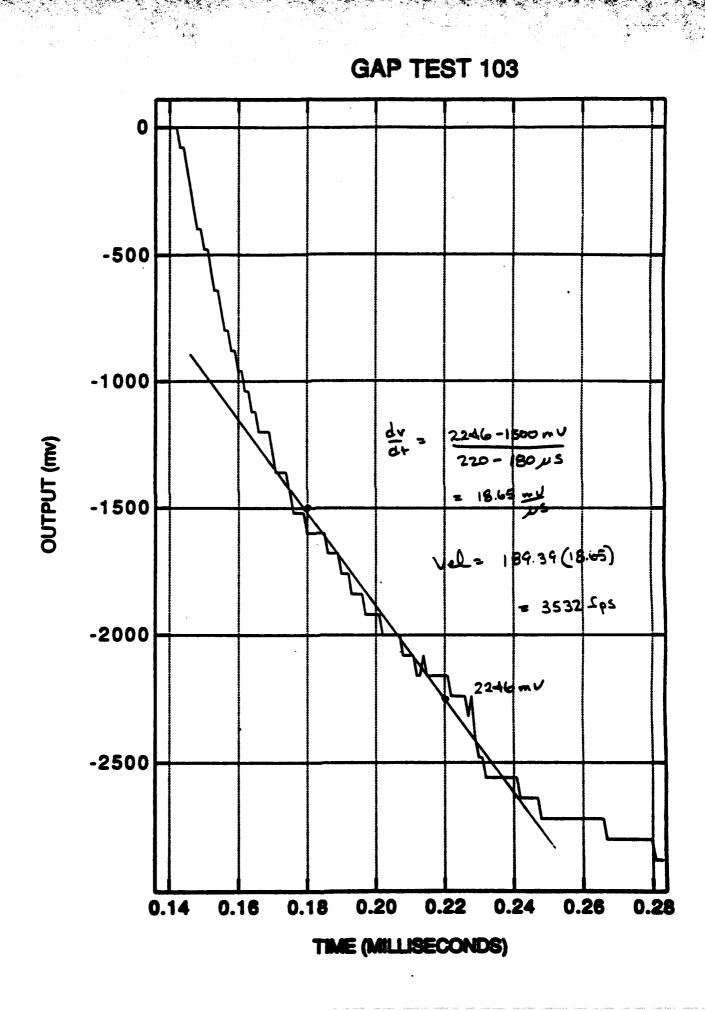


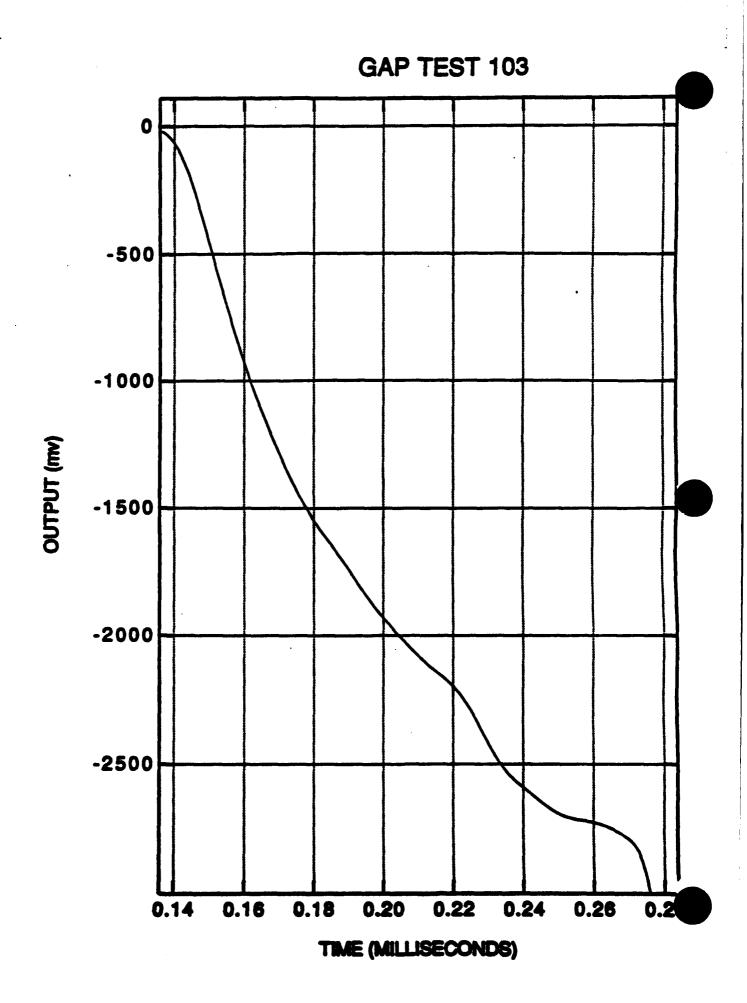




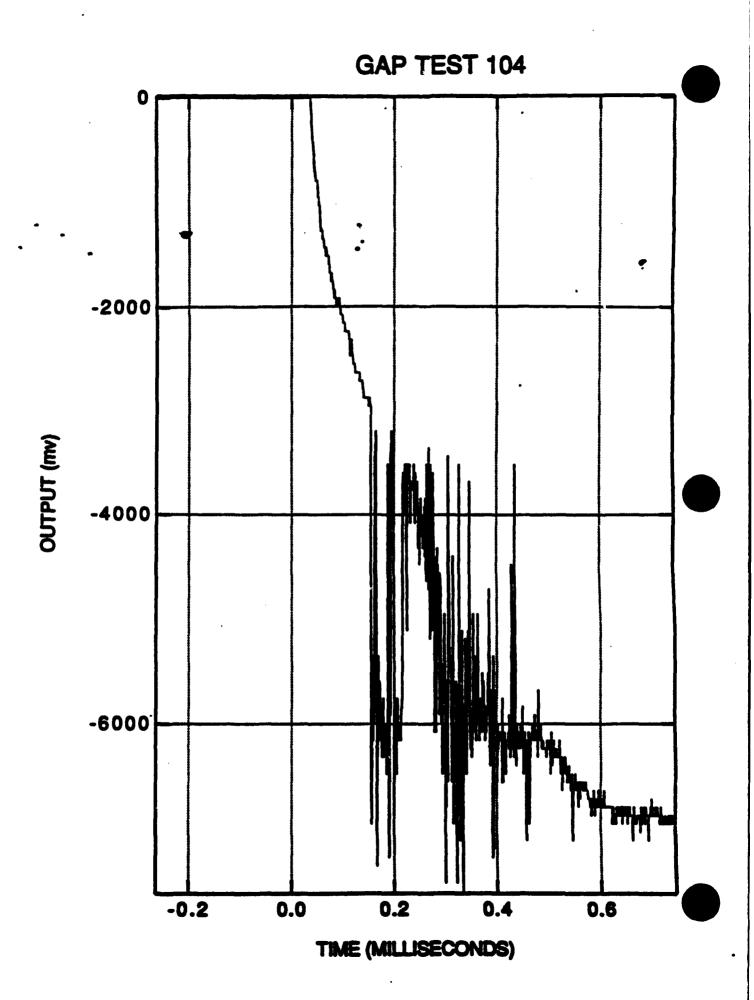
TEST NO	DATE 10/22/92
SOIL SAMPLE NO. <u>EP-01-034</u> 4.5-5"	TEMPERATURE 72
RESULTS	
PIPE SPLIT NOYES PIPE FRAGMENTED NOYES	LENGTH OF SPLIT
PIPE FRAGMENTED NO YES	NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 3532 FPS	
	NGINCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL EZ 4 JF	
ADDITIONAL COMMENTS.	

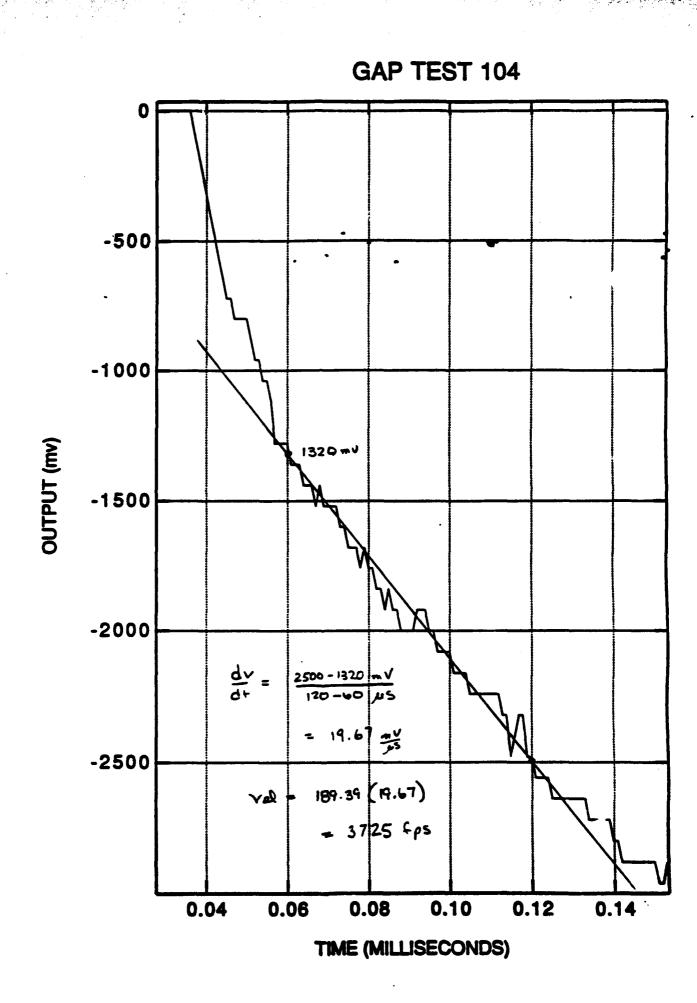




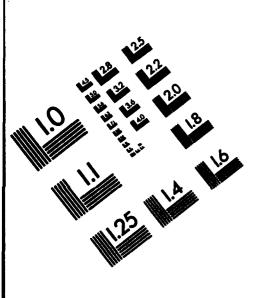


TEST NO	TE 10/22/92 EMPERATURE 74°
RESULTS	•
PIPE SPLIT NO YES LE	ENGTH OF SPLIT
PIPE FRAGMENTED NO V YES NO	o. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO	
VELOCITY: PEAK 3725 FPS STABLE DECAYING	ZNODEASTNO
	_
OVERALL RESULT POSITIVE NE	EGATIVE
TEST PERSONNEL EZ & JE	
ADDITIONAL COMMENTS.	





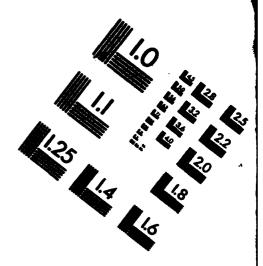
TOOELE ARMY DEPORT-NORTH AREA SUSPECTED RELEASES SHAUS VOLUME 2 APPRENDICES A - J REVISION(U) MONTGOMERY HATSON HALNUT CREEK CA DEC 93 XA-USAEC AD-A282 574 UNCLASSIFIED DAAA15-90-D-0011 NL



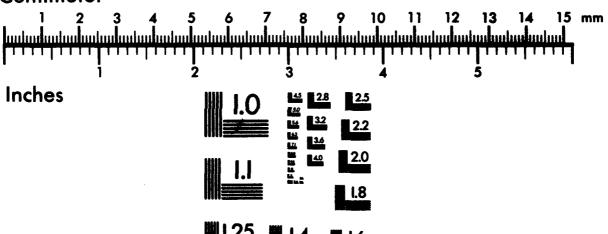


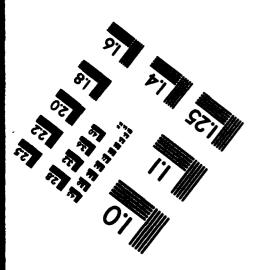
Association for information and image Managemen

1100 Wayne Avenue, Suite 1100 Silver Spring, Maryland 20910 301/587-8202

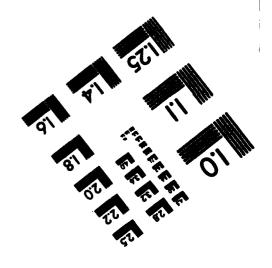


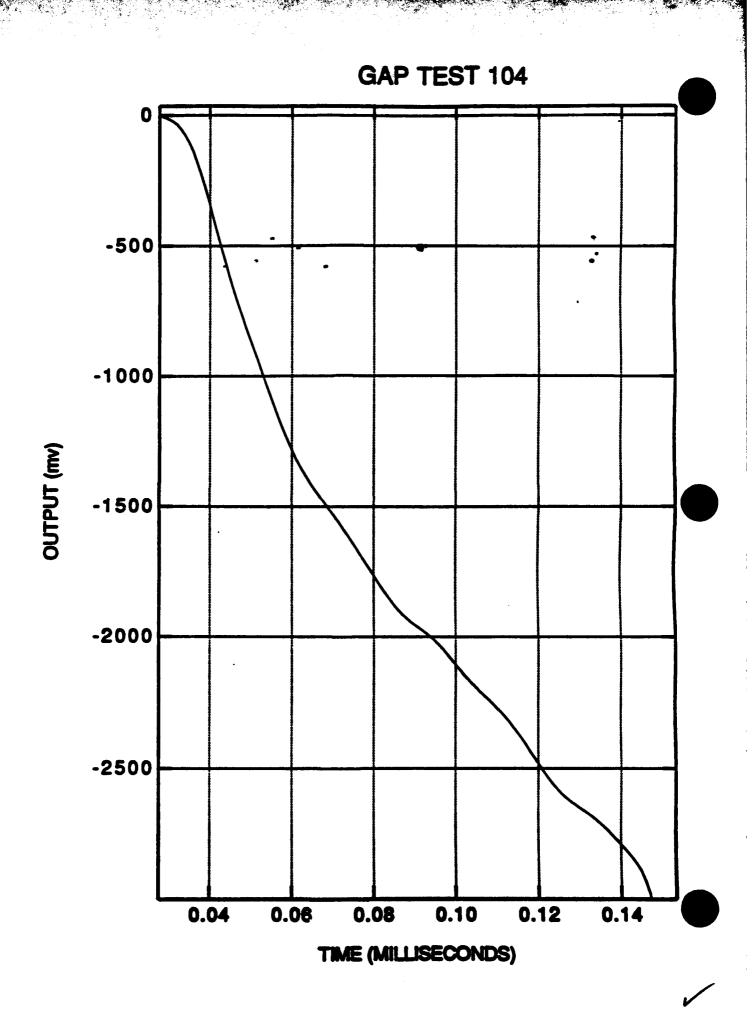
Centimeter



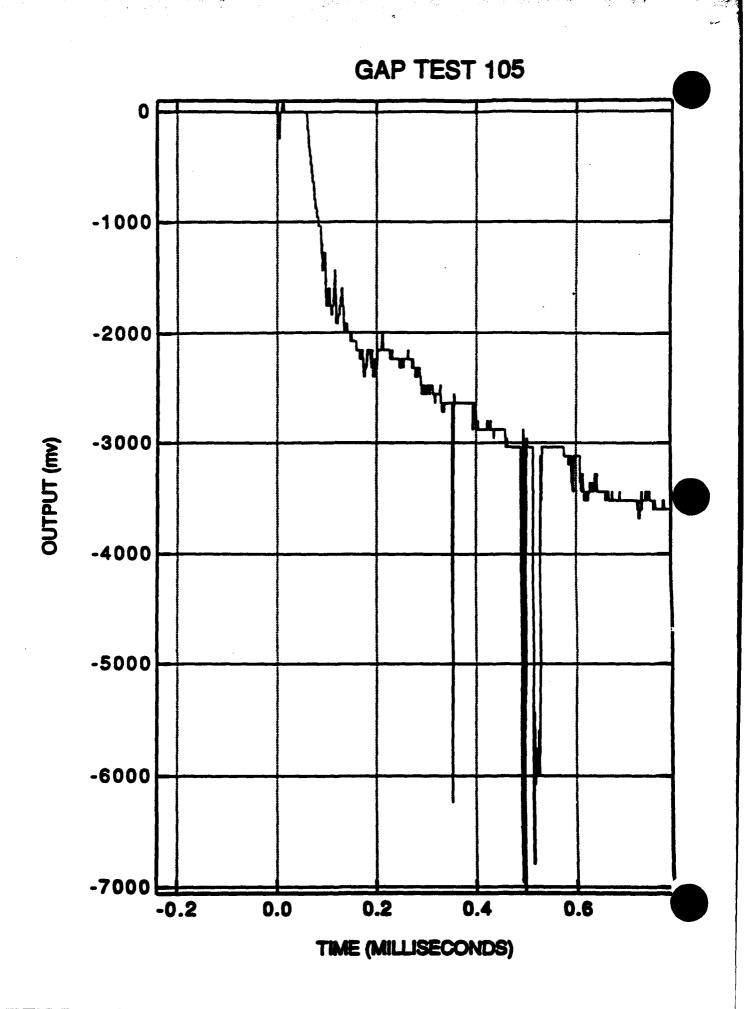


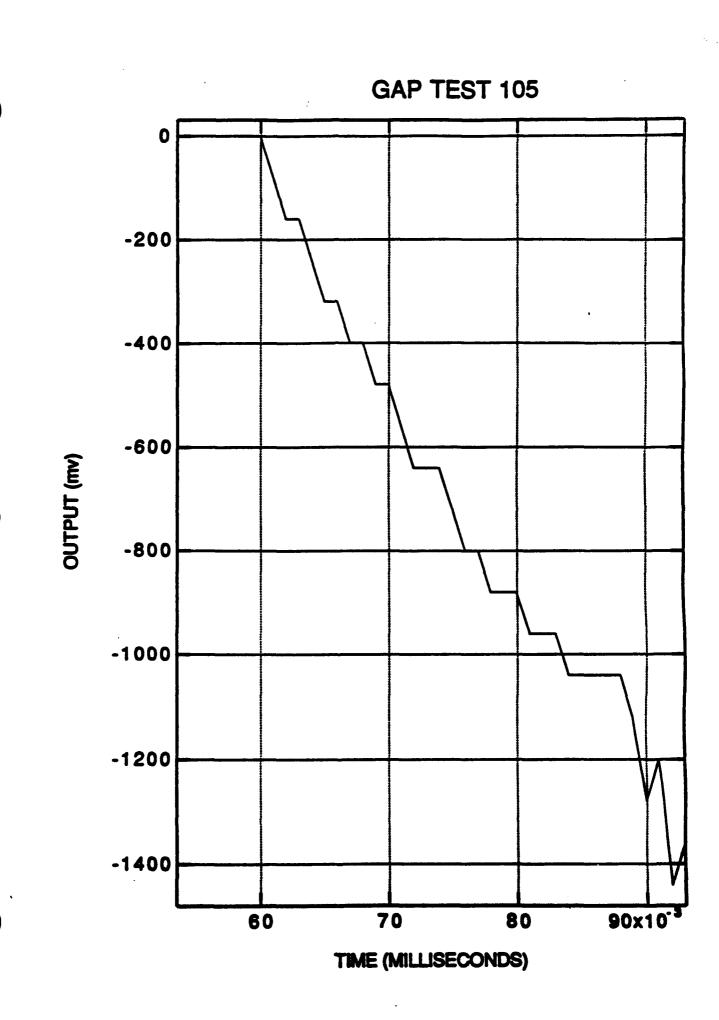
MANUFACTURED TO AIIM STANDARDS
BY APPLIED IMAGE, INC.

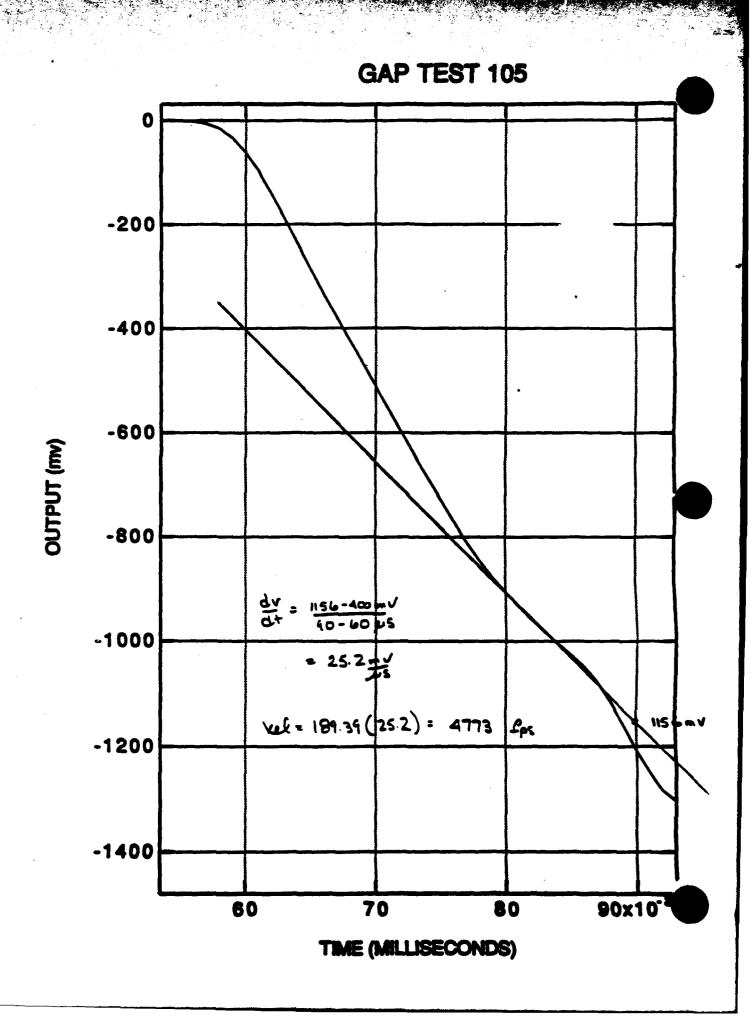




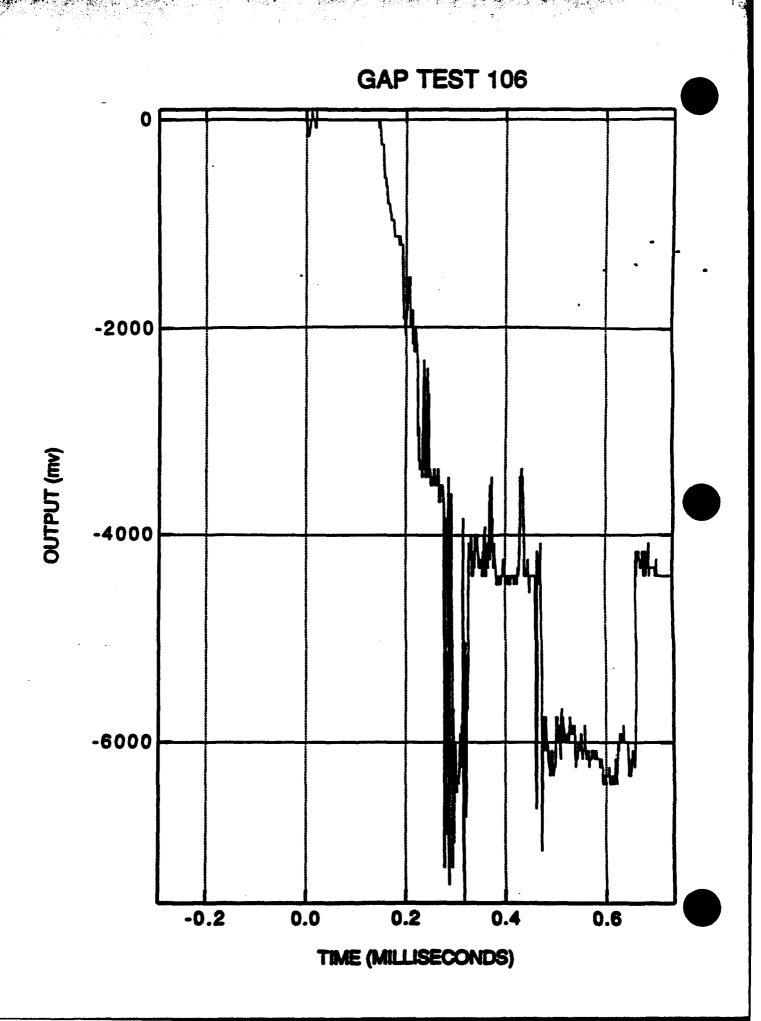
TEST NO	DATE 10/22/92
SOIL SAMPLE NO. 58-01-003-0-1'	TEMPERATURE 32
RESULTS	
PIPE SPLIT NO YES	
PIPE FRAGMENTED NO YES YES	•
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 4773 FPS	
STABLE DECAYING	GINCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL EZ & JE	
ADDITIONAL COMMENTS.	

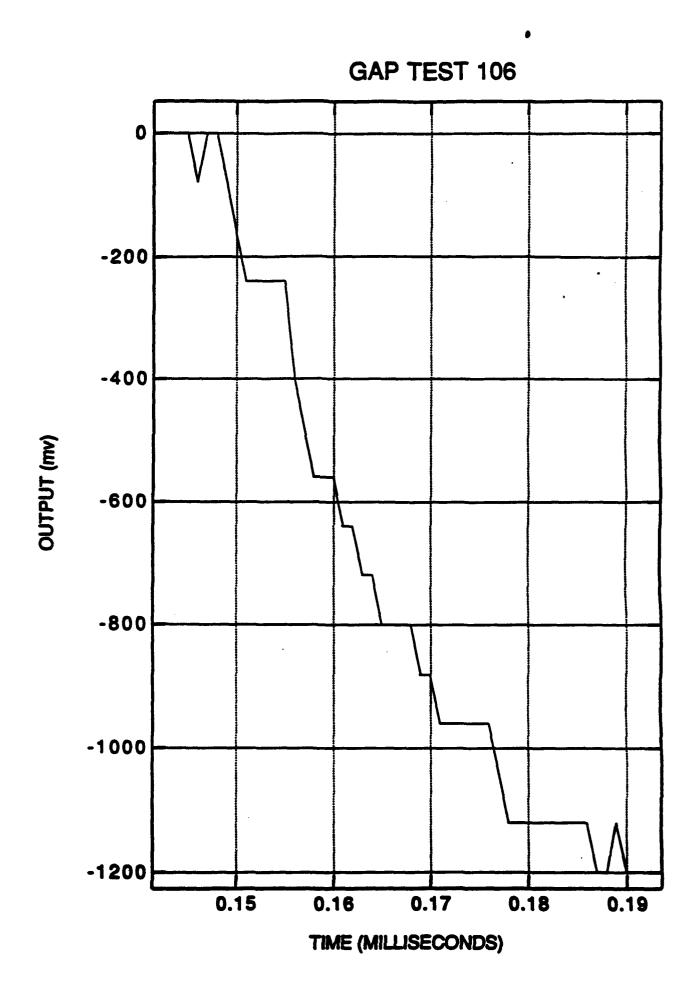


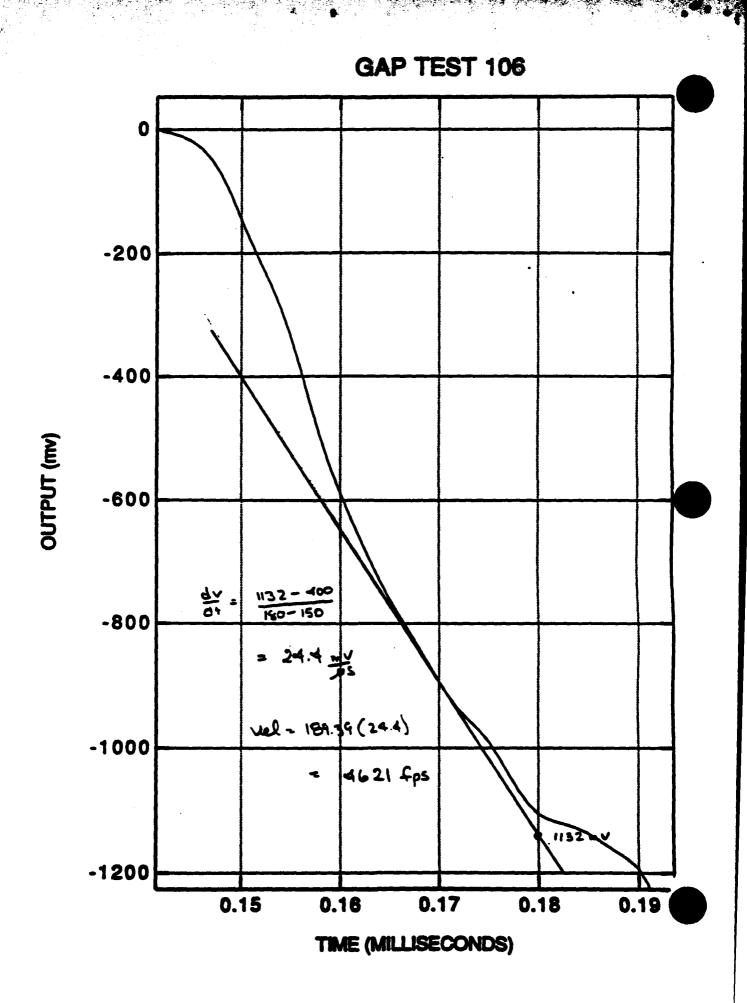




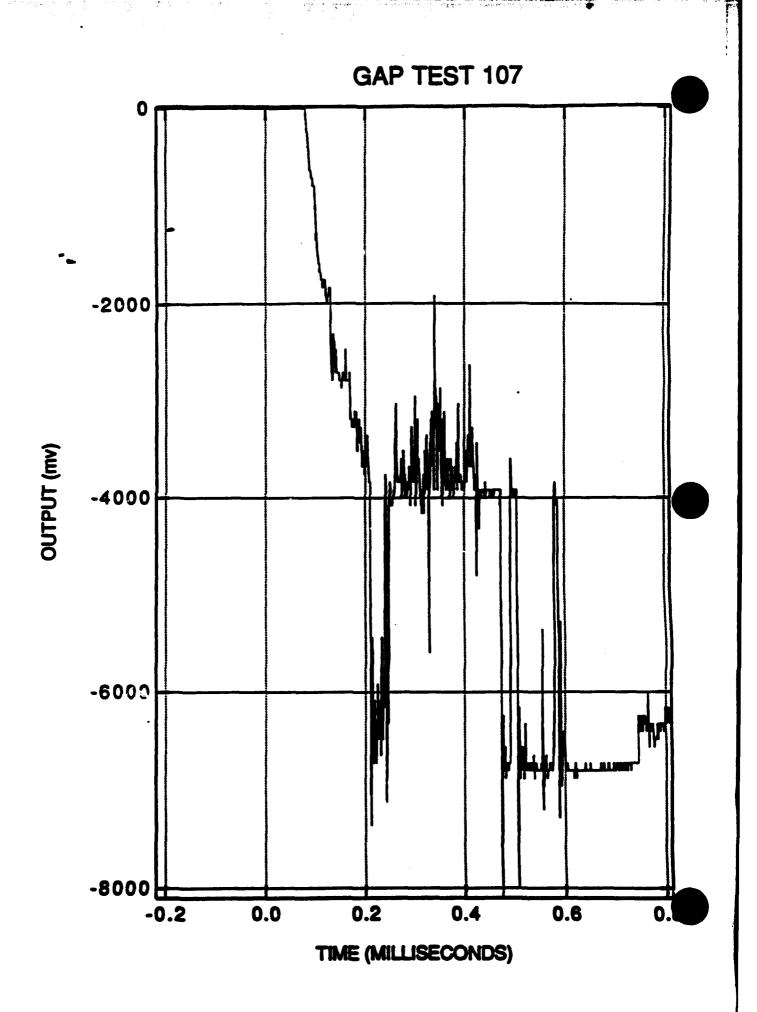
TEST NO	DATE
SOIL SAMPLE NO \$8-01-003 0-1'	TEMPERATURE 84 *
RESULTS	
PIPE SPLIT NO YES PIPE FRAGMENTED NO YES	LENGTH OF SPLIT
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 4621 FPS	
STABLE DECAYI	NG INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNEL EZE JE	
ADDITIONAL COMMENTS:	





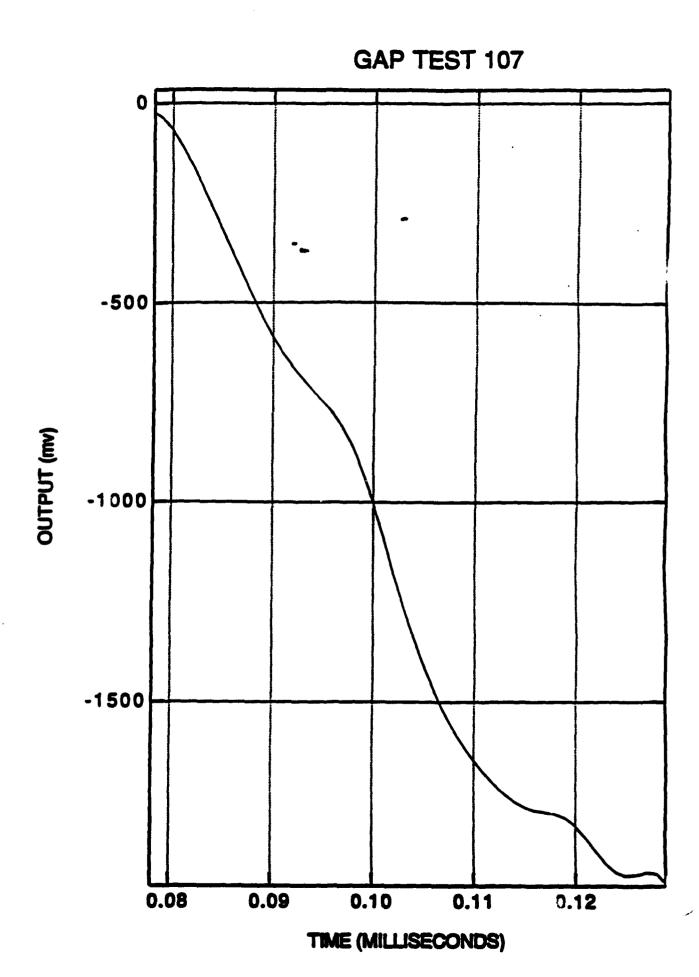


TEST NO	DATE 10/22/42
SOIL SAMPLE NO. EP-01-092 C-1	TEMPERATURE SU
RESULTS -	•
PIPE SELIT NO YES	
PIPE FRAGMENTED NO_V YES	NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO_	YES SIZE
VELOCITY: PEAK 5732 FPS	
STABLE DECAYI	ING INCREASING
OVERALL RESULT POSITIVE	NEGATIVE
TEST PERSONNELEZ \$ JE	
ADDITIONAL COMMENTS:	

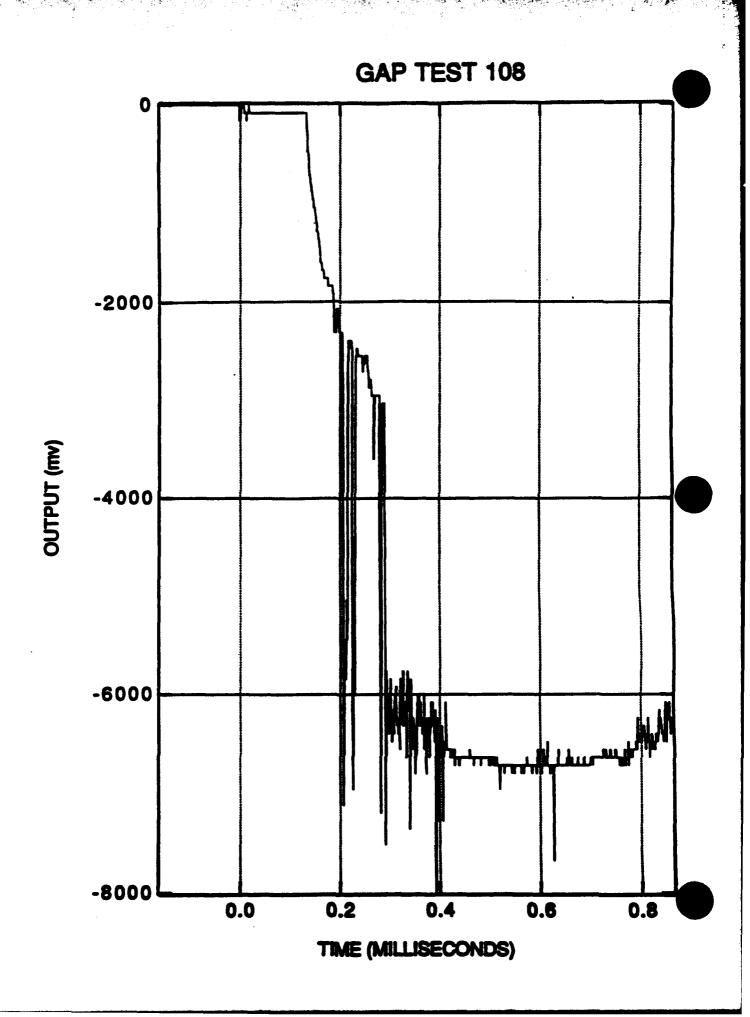


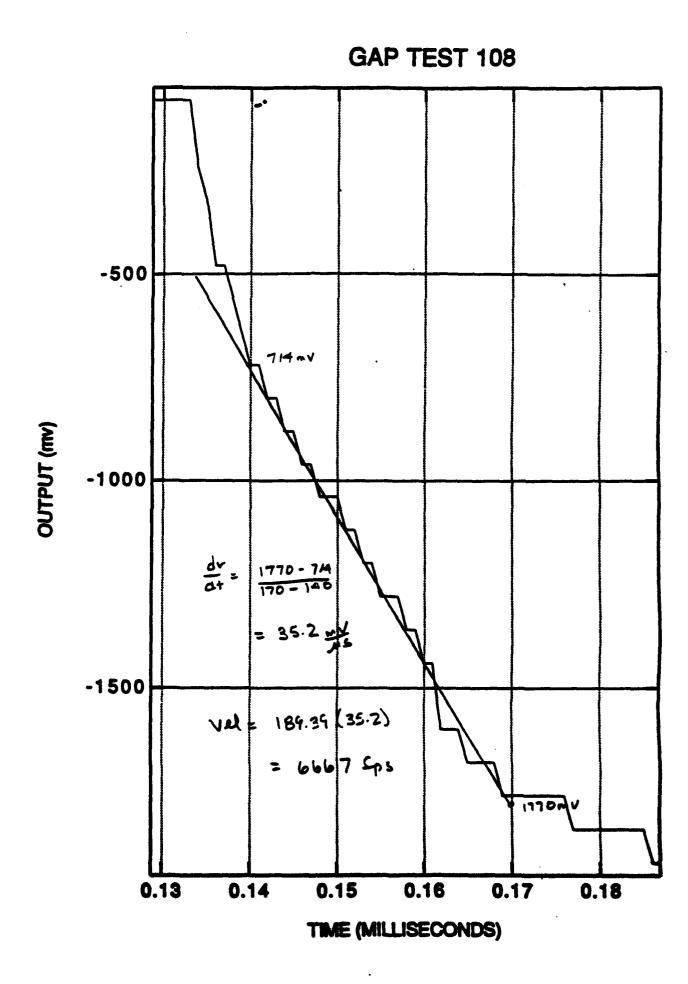
GAP TEST 107 -500 OUTPUT (mv) -1000 10 34 my -1500 184.34 (30.3) val = = 5732 ps 0.08 0.10 0.11 0.09

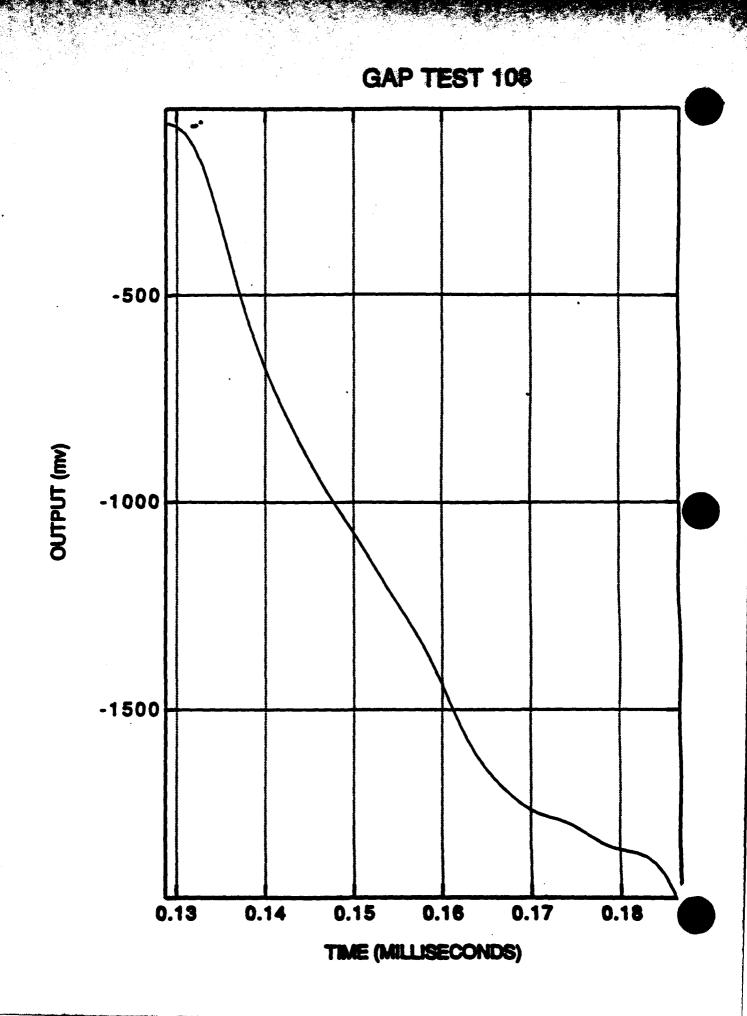
TIME (MILLISECONDS)



TEST NO. 108 DATE $10/23/92$ SOIL SAMPLE NO. $Ef-0/-092$ $C-1'$ TEMPERATURE 72°
SUIL SAMPLE NO. T. T. T. T.
RESULTS
PIPE SPLIT NO VES LENGTH OF SPLIT
PIPE FRAGMENTED NO YES NO. OF PIECES
HOLE PUNCHED IN WITNESS PLATE NO YES SIZE
VELOCITY: PEAK 667 FPS
STABLE DECAYING INCREASING
OVERALL RESULT POSITIVE NEGATIVE
TEST PERSONNEL EZ & JE
ADDITIONAL COMMENTS:







Appendix H



APPENDIX

FIELD SURVEY DATA

H.1 INTRODUCTION

H.1.0.1. This appendix presents the location data generated during the field topographic survey activities conducted by subcontractor personnel from Caldwell, Richards, and Sorensen Engineering, Inc. (CRS) prior to sampling activities at the various SWMUs. The purpose of this survey was to provide fixed survey reference points in terms of the Utah State Plane Coordinate System at the separate SWMUs, enabling individual sampling locations to be tied to these points at the time of sampling. Individual sampling locations could then be placed into the Geotechnical Map File (GMA) of the IRDMIS data base. Soil borings which were 25 ft. deep or deeper were surveyed directly by CRS personnel from fixed references.

HL2 SCOPE OF ACTIVITIES

H.2.0.1. The field survey activities were performed in two separate stages during the TEAD-N RFI. These activities are described below.

H.2.0.2. Topographic Field Survey. Prior to any field sampling activities, CRS personnel surveyed and marked a total of 48 separate reference locations at 17 SWMUs across TEAD-N. The primary method of marking the individual reference locations consisted of staking a 4 ft. section of wood lath into the ground at the reference point location and labeling the lath with the reference designation. A section of surveyers flagging was usually tied around the uppermost part of the stake for added visibility. At times, fixed objects such as building corners or utility posts were used as reference locations, and the building corner or post itself was flagged and labeled.

H.2.0.3. The reference points were used to tie individual sampling sites at each SWMU to the State Plane Coordinate System at the time of sample collection. A tripod-mounted Brunton compass was used to measure angles and establish bearings to and from the established reference points.

H.2.6.4. Borehole Surveying. Upon completion of the drilling program, CRS personnel were again on site at TEAD N to survey the locations of the nine deep sell berings

previously drilled at the OB/OD Area, and the 25 ft. soil boring drilled at the Stormwater Discharge Area (SWMU 45).

H.3 DATA SUMMARY

H.S.1. Surveyed Reference Points and Borobole Locations

H.S.1.1. The survey data generated from the SWMU reference points were tied to Utah State plane coordinates as per IRDMIS data base entry requirements. A summary of State plane northing and easting coordinates for each reference point is shown in Table H-1. Also included is the elevation of each reference point in feet above mean sea level. The SWMU reference number is shown with the following designation:

XX-Y

where: XX=SWMU Number

where: Y=Sequential Designation of Reference Locations Within the SWMU

H.3.1.2. The final entry on Table H-1 is for Water Well No. 3 (WW-3), which was the source for the approved water used during the field work.

H.S.1.3. Table H-2 shows the State plane northing and easting coordinates and elevations for the surveyed boreholes. The elevations shown are for the ground surface immediately adjacent to each borehole. The borehole designation follows the convention:

SR-XX-YY

where: SB = Soil Boring

XX = SWMU Number or BK = background

YY = sequential boring number within that SWMU

H.S.S. Sample Location Data

H.S.2.1. Table H-3 presents the data entered into the GMA from the RFI field sampling locations. These data include all source and accuracy codes, as required. The majority of sample locations from the RFI were entered with the X, Y Assuracy Code of "2", which

designates an accuracy of 100 meters laterally; and a GS Accuracy (elevation) Code of "1", designating an accuracy of 10 feet vertically.

TABLE H-1
TOOELE ARMY DEPOT SWMU SITE COORDINATES
6/11/92
NAD 1927 STATE PLANE COORDINATE DATA
UTAH CENTRAL ZONE COORDINATES

SWMU #	NORTHING	EASTING	ELEVATION
1 A-1	793,431.47	1,728,024.23	5,101.29
1A-2	791,621.11	1,728,347.83	5,080.18
1A-3	792,579.81	1,728,622.45	5,078.94
1-4	791,651.51	1,729,258.41	5,067.84
1-5	790,401.45	1,729,919.58	5,047.7€
1D-6	789,889.45	1,729,322.98	5,051.0E
18-1	789,648.58	1,732,502.63	5,009.92
18-2	789,118.08	1,732,882.50	4,991.73
18-3	790,588.98	1,732,182.87	5,062.34
1C-1	789,825.03	1,733,847.433	4,968.29
14-1	799,758.12	1,759,680.62	4,694.79
14-2	800,248.38	1,759,827.73	4,693.65
19-1	792,861.38	1,733,797.37	5,011.41
19-2	792,573.72	1,733,941.36	5,011.06
19-3	792,604.81	1,733,526.31	5,011.52
19-4	792,856.60	1,733,339.56	5,012.25
19-5	793,207.10	1,733,946.80	5,007.05
20-1	795,122.62	1,732,462.10	5,010.53

SWMU #	NORTHING	EASTING	ELEVATION
20-2	794,746.99	1,732,391.35	5,017.17
21-1	794,252.03	1,739,161.10	4,796.77
21-2	794,153.34	1,739,139.03	4,796.86
26-1	799,795.84	1,766,147.26	4,838.41
26-2	799,365.87	1,766,907.47	4,864.91
26-3	800,481.36	1,767,090.59	4,858.05
26-4	800,671.30	1,766,681.95	4,841.28
26-5	801,957.49	1,767,447.77	4,839.16
26-6	801,994.98	1,767,383.73	4,835.33
26-7	802,228.89	1,767,514.42	4,833.87
26-8	801,782.43	1,768,461.69	4,863.44
26-9	801,441.81	1,768,208.86	4,866.75
26-10	799,913.36	1,767,344.06	4,866.06
27-1	793,629.14	1,764,509.55	4,865.45
27-2	793,795.40	1,764,390.90	4,863.49
28-1	798,276.11	1,763,451.17	4,801.53
28-2	798,617.42	1,763,264.13	4,792.63
29-1	797,426.29	1,763,382.12	4,812.34
29 -2	797,456.11	1,753,330.07	4,810.85
29-3	798,842.37	1,762,904.27	4,800.45
34-1	790,816.08	1,764,718.81	4,881.58
34-2	793,081.72	1,784,662.47	4,878.36

SWMU #	NORTHING	EASTING	ELEVATION
37-1	793,130.77	1,738,381.92	4,829.06
37-2	792,928.24	1,738,439.13	4,827.50
42-1	794,778.46	1,765,190.10	4,873.20
42-2	794,607.97	1,765,033.54	4,872.25
42-3	794,650.67	1,764,983.31	4,868.46
42-4	794,808.35	1,764,799.86	4,863.51
42-5	794,988.77	1,764,583.07	4,853.37
45-1	795,144.34	1,763,254.04	4,800.46
ww-3	797,690.29	1,764,914.48	4,833.00

.

TABLE H-2

SWMU SITES BORE HOLE LOCATIONS

8/20/92

NAD 1927 STATE PLANE COORDINATE DATA UTAH CENTRAL ZONE COORDINATES

BORE HOLE #	NORTHING	EASTING	ELEVAION
SB-01-001	792,433.27	1,728,465.03	5,079.12
SB-001-002	792,165.79	1,729,037.11	5,066.21
SB-001-003	791,632.91	1,728,990.06	5,066.83
SB-001-004	791,361.88	1,728,218.71	5,082.89
SB-01-005	789,959.21	1,729,523.94	5,048.48
SB-BK-006'	787,501.10	1,727,024.49	5,126.05
SB-01-006	790,190.57	1,732,668.24	5,017.15
SB-01-007	789,244.92	1,732,749.27	4,994.07
SB-01-008	789,492.91	1,733,152.54	4,987.85
SB-45-001	795,169.80	1,763,257.99	4,799.59

	Int	200	2	DCD	DCD	DCD	DCD	DCD	0 50	DCD	god DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD
	GB Ace Code	•	-	-		-	-		-	1	-		-	1	1		1	-	-		-	-	-	_	1	-	7		-	-		-	1	1	-	
	GS Source		X	X	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	X	×	×	×	X	×	×	×	×	7	×	×	M
	GS Elevation		5067	5087	2080	6090	5086	6085	5085	6082	4077	4076	2080	6086	5076	2909	6072	6076	5076	5078	6076	5072	1609	6089	2080	6083	6080	6078	2080	5089	2609	5085	6063	5058	2060	5081
-	X,Y Ace Code		~	2	64	~	8	2	2	8	8	2	64	64	64	~	64	8	64	~	8	~	8	8	8	3	8	2	2	2	8	2	64	8	8	2
	X,Y Source		*	×	×	×	×	×	K	×	×	×	×	×	3	×	×	×	×	×	×	Z	3	M	X	M	K	X	Ж	K	X	Z	×	×	×	***
	X (East)		1,728,261	1,728,125	1,728,236	1,728,100	1,728,276	1,728,200	1,728,442	1,728,375	1,728,625	1,728,650	1,728,445	1,728,250	1,728,700	1,728,938	1,728,600	1,728,350	1,728,350	1,728,925	1,728,400	1,728,525	1,728,700	1,728,675	1,728,777	1,728,675	1,728,750	1,728,750	1,728,926	1,729,019	1,728,909	1,728,780	1,729,376	1,729,850	1,729,800	1,729,300
	Y (North)		183,284	793,276	793,220	793,150	793,075	793,067	792,813	792,775	792,400	792,300	792,549	792,985	792,150	791,765	791,825	792,100	792,175	792,225	792,450	791,928	792,900	792,850	792,800	792,600	792,425	792,325	792,447	792,664	192,752	192,821	790,776	790,876	790,976	791,075
	Site ID	.00	Dr-10-74	EP-01-002	EP-01-003	EP-01-004	EP-01-006	EP-01-006	EP-01-007	EP-01-008	RP-01-000	RP-01-010	EP-01-011	EP-01-012	EP-01-013	EP-01-014	EP-01-015	EP-01-016	EP-01-017	EP-01-018	EP-01-019	EP-01-020	EP-01-021	EP-01-022	EP-01-023	EP-01-024	EP-01-026	EP-01-028	EP-01-027	EP-01-028	EP-01-029	EP-01-030	EP-01-031	EP-01-032	EP-01-033	EP-01-034
	Site Type	SEA VALL	EACV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV

Int	900	939	939	999	900	900	656	DCD DCD	939	939	DCD	COQ	656	ලිය	0 20	650	930	900	650	650	650	650	930	650	650	650	650	650	650	650	930	660	650	82	88	DG
GB Acc Code	-	-	-	-	-	-	-	-	-	-	1	1				-	-	-	-		1	-	7		-			-	-	-	-	1	-	-	-	-
GB Source	×	×	×	Z	Z	×	×	×	×	Z	×	X	×	×	×	×	×	X	×	X	Z	×	X	×	×	×	×	X	×	×	×	*	Z	×	×	X
GS Elevation	2909	8909	5064	2909	9909	2067	6909	9909	6050	9999	8909	6050	909	8050	909	8909	6068	2080	208	6076	5093	6110	5093	6092	5072	8048	6049	6060	2047	5043	5042	6100	6100	9609	5100	8098
X,Y Ace Code	64	64	64	7	84	64	2	64	64	~	64	3	2	2	3	2	64	8	8	8	3	8	3	8	2	3	2	3	3	2	2	8	2	2	2	8
X,Y Source	×	X	Z	X	N	×	×	×	×	×	×	X	M	M	M	×	×	X	×	X	×	M	X	×	×	X	W	×	×	×	X	X	X	×	×	×
X (East)	1,729,276	1,729,276	1,729,245	1,729,225	1,729,175	1,729,150	1,729,250	1,729,461	1,729,492	1,729,433	1,729,275	1,729,461	1,729,613	1,729,541	1,729,567	1,728,882	1,728,950	1,728,325	1,727,663	1,728,910	1,729,075	1,729,200	1,729,125	1,729,275	1,728,520	1,729,650	1,729,672	1,729,557	1,729,722	1,729,975	1,730,199	1,729,450	1,729,626	1,729,750	1,729,950	1,730,100
Y (North)	791,176	791,275	791,375	791,475	791,575	791,650	791,890	790,601	790,520	790,514	790,575	790,442	790,384	790,318	790,201	791,233	791,175	791,102	791,234	792,218	792,200	792,100	791,950	791,850	791,667	791,125	791,113	791,363	790,744	790,250	790,092	791,775	791,700	791,660	791,325	190,900
8ite 1D	EP-01-036	EP-01-036	EP-01-037	EP-01-038	EP-01-039	EP-01-040	EP-01-041	EP-01-042	EP-01-043	EP-01-044	EP-01-046	EP-01-046	EP-01-047	EP-01-048	EP-01-049	EP-01-060	EP-01-061	EP-01-062	EP-01-063	EP-01-064	EP-01-066	EP-01-056	EP-01-057	EP-01-058	EP-01-069	EP-01-060	EP-01-061	EP-01-062	EP-01-063	EP-01-064	EP-01-066	EP-01-066	EP-01-067	EP-01-068	EP-01-069	EP-01-070
Site Type	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCA	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV

2 , 2

_		_		_	_	_				_																										
Int	DCD	930	900	88	650	900	939	050	DCD	DCD DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD DCD	800	DCD	929	DCD	DGD	DCD	600	DCG	650	DCD
GB Acc Code	1	1	1	-	-		-	-	-	1	-	1	-	-	-	-	-	1	-		_	-		1	-	-	-	-	-	-	-	_	1	1	1	1
GB Source	×	×	×	×	×	×	×	×	7	×	×	7	×	×	×	×	×	×	×	×	×	×	7	×	×	×	×	X	×	×	×	×	×	×	2	×
GB Elevation	2009	2066	2064	5063	2069	909	1809	6009	6018	6019	5037	6000	2068	2909	6058	6049	9909	1909	6909	6078	5078	6093	5087	5082	6074	9809	2809	5038	6020	6010	5022	8018	2009	2002	2030	6026
X,Y Ace Cede	8	2	64	8	64	64	64	64	8	64	04	64	æ	64	a	64	64	64	æ	~	æ	æ	8	64	2	8	64	8	64	8	~	64	2	88	3	8
X,Y Bource	×	×	×	×	×	×	×	×	×	×	×	×	×	Ж	M	×	×	×	X	X	X	N	M	X	X	X	X	X	×	X	×	×	X	X	×	X
X (East)	1,730,025	1,729,025	1,729,075	1,729,150	1,728,802	1,729,925	1,730,376	1,780,450	1,730,675	1,730,600	1,780,850	1,728,675	1,728,675	1,728,826	1,728,925	1,729,200	1,728,650	1,728,850	1,728,950	1,728,250	1,728,250	1,727,850	1,728,100	1,728,300	1,728,626	1,782,81~	1,782,425	1,732,500	1,782,675	1,782,750	1,782,500	1,732,600	1,782,900	1,732,750	1,782,500	1,782,626
Y (North)	790,700	791,175	791,180	791,196	791,667	791,000	789,700	789,426	789,225	789,800	789,950	791,750	789,675	789,675	780,675	789,700	789,800	789,800	789,800	792,150	792,100	791,300	791,350	791,350	791,360	791,076	790,825	790,500	790,300	790,060	790,200	790,100	789,850	789,850	789,700	780,375
Bite ID	EP-01-071	EP-01-072	EP-01-073	EP-01-074	EP-01-076	EP-01-076	EP-01-077	EP-01-078	EP-01-079	EP-01-000	EP-01-061	EP-01-062	EP-01-063	EP-01-084	EP-01-066	EP-01-066	EP-01-087	EP-01-066	EP-01-060	EP-01-090	KP-01-001	EP-01-002	EP-01-093	EP-01-094	RP-01-096	EP-01-096	EP-01-007	EP-01-088	EP-01-086	EP-01-100	KP-01-101	EP-01-102	EP-01-103	EP-01-104	EP-01-106	EP-01-106
Site Type	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EKCV	EXCV	EXCV	EXCV

Int	900	8	65	8	656	65	6	900	650	8	650	650	8	8	DCD	90	600	0	8	88	8	8	DCD	DCD	650	650	8	8	0 20	65	DCD	DCD	920	DCD	DCD	8
GB Ace Code	-	1	-	-	-	1	-		-	-		1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	-
G8 Source	×	×	×	×	X	N	×	M	×	M	×	M	M	×	Z	83	82	Ø	8	8	æ	Ø	œ	Z	X	N	Ж	X	X	×	×	×	×	×	×	×
GS Elevation	8009	2000	4997	4993	4988	4993	4996	4986	4985	4988	4976	4970	4958	4969	4958	6029	2066	5067	6083	5048	5017	1667	886\$	4856	4860	1840	4860	4867	4862	4865	1862	1999	1987	4859	4853	7990
X,Y Ace Code	2	67	2	8	8	8	64	67	64	64	64	~	2	64	2	0	0	0	0	٥	0	•	0	8	~	64	64	C4	ea	8	~	2	a	œ	64	8
X.Y Bource	×	×	×	×	×	×	×	×	×	×	N	×	×	×	×	Ø	8	æ	80	œ	8	8	Ø	×	×	×	×	×	×	×	×	×	7	×	×	×
X (East)	1.732,625	1.732.700	1.732,850	1.732,950	1,733,100	1.732,975	1,733,000	1,733,300	1,733,400	1,733,575	1,733,850	1,734,075	1,734,400	1.734.200	1.734.350	1,728,465	1.729.037	1,728,990	1,728,219	1,729,524	1,732,668	1.732.749	1,783,162	1,766,735	1,766,975	1,766,520	1,766,935	1,767,170	1,767,475	1,787,190	1,767,830	1,767,690	1,767,955	1,767,790	1,767,665	1,766,250
Y (North)	789.400	789.400	789,550	789.250	789,025	789.475	789,650	789,450	789.475	789,500	789,475	789.600	789,750	789.950	790.350	792,433	792.166	791.633	791,362	789.969	790,190	789.245	789,493	799.300	799.710	799,885	799,440	799,270	799,700	799,880	800,485	800,620	900,890	800,970	901,040	601,676
Site ID	EP-01-107	EP-01-108	EP-01-109	EP-01-110	EP-01-111	EP-01-112	EP-01-113	EP-01-114	EP-01-116	EP-01-116	EP-01-117	EP-01-118	EP-01-119	EP-01-120	EP-01-121	8B-01-001	8B-01-002	SB-01-003	SB-01-004	88-01-006	SB-01-006	SB-01-007	8B-01-008	SB-26-001	SB-26-002	SB-26-003	8B-26-004	8B-26-008	SB-26-006	SB-26-007	SB-26-008	SB-26-009	SB-26-010	88-26-011	8B-26-012	SB-26-013
Site Type	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	EXCV	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE



Int	DCD	DCD	DCD	000	000	DCD	000	god	000	god	650	650	650	650	DCD DCD	650	650	DCD	QQQ	650	000	000	650	650	650	650	650	900	650	8	939	650	650	88	650	DCD
GB Ace Cade	1	-	1	1	1	1	1	-	1	-		-	1		1		-	1	1	-	-		_	-	-	_		-		-	~	-	-			
G8 Source	×	×	×	×	3	×	3	×	×	H	×	×	×	7	×	*	×	×	×	3	2	3	×	*	×	3	×	×	×	×	×	×	×	×	×	M
GB Elevation	4846	4863	4805	4805	4805	4805	4805	4806	1811	4613	4816	9197	989	7800	7800	7800	4800	6900	4800	7800	4800	4800	9087	7800	4800	9089	4800	1900	9087	4820	4811	4786	4796	4796	4796	4796
X,Y Ace Code	64	64	1	-	-	_		-	-	-	-	-	-		-	-	-		-	-	1	-	1	1	1	1	1	1	1	-	1	1	-	-	1	1
X,Y Source	×	×	×	X	×	×	×	×	×	×	×	7	×	7	2	×	×	3	×	X	X	X	Ж	М	Ж	Ж	M	Ж	Ж	X	X	X	×	X	X	×
X (East)	1,767,245	1,767,060	1,763,580	1,763,500	1,763,460	1,763,500	1,763,500	1,763,520	1,763,550	1,763,660	1,769,770	1,763,820	1,763,450	1,763,420	1,763,350	1,763,300	1,769,170	1,763,130	1,763,060	1,763,016	1,769,955	1,769,180	1,763,126	1,762,866	1,763,020	1,763,960	1,763,110	1,763,970	1,763,990	1,763,946	1,763,630	1,763,860	1,762,770	1,762,720	1,762,840	1,762,950
Y (North)	900,980	800,610	798,060	796,000	797,890	797,980	797,890	197,260	797,186	797,110	797,046	197,020	797,660	197,610	197,520	797,445	797,355	797,300	797,180	797,070	797,086	797,466	796,910	796,935	796,925	796,630	797,380	796,830	796,775	797,910	797,000	796,600	796,750	796,860	797,070	797,250
Site 1D	SB-26-014	SB-26-016	SB-29-001	8B-29-003	SB-29-003	SB-29-004	8B-29-006	SB-29-006	8B-29-007	SB-29-006	8B-29-000	88-29-010	8B-29-011	SB-29-012	SB-29-013	88-39-014	SB-29-016	SB-29-016	88-29-017	SB-29-018	8B-39-019	SB-29-020	88-39-021	88-39-022	88-39-023	88-29-024	SB-29-026	88-29-026	88-39-027	SB-29-028	88-29-029	SB-38-630	88-38-031	SB-29-033	28-28-023	58-29-034
Site Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORB	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORB	BORE	BORE

lat.	650	656	939	656	82	88	600	650	650	900	650	930	650	650	950	930	88	950	650	DCD	939	900	929	050	900	900	920	650	656	8	650	68	650	650	000	DCD
GB Ace Code		-	-	-		7		1		_	-	_	1	_	-	-	0	-	_	-	1	-	-	-	-	_	1	1	1	1		1	1	1	-	1
GB Source	×	×	×	*	7	×	×	×	×	×	×	×	×	×	×	×	×	×	7	×	×	×	×	×	3	X	×	M	Z	×	×	×	×	3	×	×
GS Elevation	4795	4796	4800	4872	4872	4872	4672	4872	4870	4865	4862	4867	1981	4860	4860	4860	4799	4800	4800	4820	4820	4820	4800	4800	4796	4796	4810	4810	4628	4828	4828	4828	089	4860	7890	4969.00
X,Y Ace Code			1	64	8	00	80	64	64	00	64	67	8	3	69	64	0	64	64	64	69	64	2	3	3	3	8	8	3	8	8	8	8	3	3	8
X,Y Source	×	X	X	X	R	H	×	×	X	M	×	M	X	×	X	X	80	×	×	X	X	×	М	X	X	X	X	X	×	X	×	×	X	×	X	X
X (East)	1,763,070	1,763,190	1,763,830	1,766,201	1,766,190	1,765,192	1,766,178	1,765,091	1,764,949	1,764,936	1,764,800	1,764,711	1,764,638	1,764,556	1,764,574	1,764,578	1,763,268	1,767,060	1,767,200	1,765,650	1,765,850	1,766,900	1,764,406	1,764,400	1,763,990	1,764,200	1,764,125	1,764,135	1,766,160	1,765,175	1,765,150	1,765,125	1,764,660	1,764,810	1,764,835	1,783,326
Y (North)	797,420	797,610	197,770	794,776	794,760	794,771	794,741	794,607	794,673	794,681	794,807	794,930	794,951	794,966	794,998	796,003	795,170	804,025	804,060	799,625	798,700	800,150	799,460	790,450	798,928	799,350	798,450	798,460	796,425	796,400	798,200	798,250	792,250	793,250	793,250	794,700
Q1 •1 1 8	SB-29-035	SB-29-036	SB-29-037	SB-42-001	SB-42-002	SB-42-003	SB-42-004	SB-42-006	SB-42-006	SB-42-007	SB-42-008	SB-42-009	88-42-010	88-42-011	88-42-013	88-42-013	88-48-001	SB-46-001	8B-46-002	SB-46-003	8B-46-004	SB-46-006	8B-46-006	SB-46-007	8B-46-006	88-46-009	88-46-010	88-46-011	88-46-012	SB-46-013	SB-46-014	SB-46-015	88-46-016	88-46-017	28-46-018	8B-BK-001
Site Type	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BOKE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BOKE	BOKE	BOKE	BORE	BOKE	BOKE	BORE	BOKE	BOKE



Int	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	DCD	900	900	88	DCD	DCD	900	900	650	650	D CO	DOD	DCD DCD	88	650	900	0 20	050	DCD DCD	6 00	000	900	650	650	650	650	DCD
GS Ace Cade	1	1	1	-	•		1	-	-	-	-	_	-	==	-	-	1		1	-7		-	1		-		-	-	1	-	1	-	-		-	1
GB Source	×	×	×	×	æ	×	2	×	×	7	3	×	×	×	×	×	3	×	×	×	×	×	×	2	3	3	3	×	X	3	7	3	3	×	3	Z
GS Elevation	4760.00	4866.00	4999.00	4669.00	5126	1691	1684	4682	0897	4799	4799	4799	4799	4799	4796	4796	6110	8048	6020	0667	2080	986	4966	4950	4794	4784	4800	4900	4802	1802	6010	6010	6010	6010	6010	8010
X,Y Ace Cede	8	8	67	67	0	64	64	1	64	1	7	1	1	1	64	64	64	34	64	04	64	84	64	64	••	8	8	8	8	8	8	8	8	8	8	*
X,Y Source	×	×	×	×	80	×	X	X	X	X	×	×	×	X	N	n	X	X	7	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	×
X (Rest)	1,739,126	1,764,825	1,731,626	1,757,200	1,727,024	1,760,500	1,760,300	1,759,636	1,759,600	1,763,299	1,763,253	1,763,243	1,763,278	1,763,261	1,764,260	1,764,200	1,727,000	1,729,460	1,730,925	1,732,226	1,732,426	1,733,876	1,734,860	1,735,700	1,763,880	1,763,870	1,764,700	1,764,690	1,764,936	1,764,916	1,733,992	1,733,966	1,733,944	1,733,660	1,739,866	1,733,906
Y (North)	796,100	796,800	788,575	798,500	787,501	800,008	800,248	799,619	799,780	796,120	796,149	796,150	796,210	796,166	799,550	799,150	791,450	790,300	788,990	768,200	787,576	788,176	768,800	788,925	798,910	798,800	798,780	798,750	798,990	790,000	702,793	792,792	792,849	792,731	792,762	792,306
Site 1D	SB-BK-002	SB-BK-003	SB-BK-004	8B-BK-006	SB-BK-006	8D-14-001	8D-14-003	8D-14-003	8D-14-004	8D-48-001	8D-46-008	8D-46-003	8D-45-004	8D-46-006	8D-47-001	8D-47-003	100-10-88	88-01-003	88-01-003	88-01-004	900-10-88	900-10-88	28-01-007	88-01-008	88-04-001	88-04-003	88-64-603	88-04-004	88-04-006	88-04-006	88-19-001	88-19-002	88-19-003	88-19-004	88-19-006	88-19-006
Site Type	BORE	BORE	BORE	BORE	BORE	LAGO	LAGO	LAGO	LAGO	LAGO	CPV7	LAG0	09 Y 7	CAGO	SUMP	SUMP	BURP	BURF	SURP	SURP	BURP	SURP	SURP	BURP	BURF	SURP	BURP	BURP	BURF	SURP	BURF	SURP	BURP	SURF	BURF	SURP

Tech	99	939	000	000	900	DCD	DCD	DCD	DCD	ලුදු	DCD	DCD DCD	00 0	DQ	929	900	000	DCD	DCD	DCD	900	DCD DCD	600	650	900	22 0	DCD	DCD	650	000	88	656	900	000	900	DCD
GB Ace Cede	1	1	_	1		1	-	-		~	1	1	-	1	1	-	-	1	1	1	~	1	1	-	_	1	1	1	1	-	-	-	1		-	1
G8 Source	×	×	7	7	7	7	×	×	×	×	×	×	×	7	3	*	×	M	×	×	Z	. 7	3	×	×	3	X	×	M	×	×	×	*	7	×	×
G8 Elevation	6010	6010	6010	6010	6010	6010	9009	2009	6003	2003	2003	2009	2009	2003	2009	9009	2009	8009	8009	6003	2000	9009	4786	4786	4786	4785	4786	4785	4786	4785	4785	4790	4840	4848	1981	4840
X,Y Ace Code	04	~	64	64	~	64	~	00	01	65	64	64	64	~	64	64	~	8	8	3	~	8	8	æ	84	8	2	3	2	3	æ	84	*	8	8	3
X,Y Source	×	7	7	×	×	×	×	X	3	×	×	×	3	×	X	×	×	K	M	M	×	K	X	X	M	X	X	X	X	×	X	X	X	X	×	×
X (Rast)	1,733,608	1,733,300	1,733,911	1,733,745	1,733,748	1,733,772	1,732,416	1,732,396	1,732,433	1,732,463	1,732,462	1,732,486	1,732,550	1,732,488	1,732,443	1,732,385	1,732,344	1,732,327	1,732,312	1,732,373	1,732,421	1,732,480	1,739,242	1,739,255	1,739,259	1,739,258	1,739,328	1,789,222	1,739,221	1,789,221	1,739,227	1,739,186	1,766,340	1,766,525	1,766,790	1,766,850
Y (North)	792,671	792,596	798,203	792,794	792,632	792,846	794,961	710,007	796,031	794,986	794,893	796,020	794,906	794,868	794,833	784,862	794,900	794,980	794,967	795,027	795,072	795,081	795,595	796,566	795,525	796,485	796,430	796,445	795,469	795,510	795,548	796,582	799,500	799,610	790,620	799,680
Site ID	88-19-007	88-19-006	88-19-006	88-19-010	88-19-011	88-19-013	88-30-001	88-20-002	SS-30-003	98-30-004	88-30-006	88-30-006	28-20-007	88-30-006	88-20-000	88-20-010	88-20-011	88-20-013	88-20-013	88-20-014	88-30- 016	88-20-016	88-31-001	88-21-003	88-31-003	88-21-004	88-21-006	88-21-006	88-21-007	88-21-006	88-31-009	88-31-010	910-96-88	88-36-017	88-36-018	88-26-019
Site Type	SURP	SURF	SURF	SURF	SURF	SURF	SURP	SURF	SURF	SURF	SURF	SURF	SURF	SURP	SURP	SURP	SURP	SURP	SURF	SURF	SURP	SURF	SURP	SURF	SURP	SURF	SURP	SURF	SURP	SURP	SURP	SURP	SURP	SURF	SURP	SURF



Ta.	DCD	DCD	DCD	ලසු	900	DCD	000	DCD	DCD	DCD DCD	DCD	DCD	DCD	DCD	DCD	900	DCD		DCD DCD	DCD	900		9 00	DCD	DCD	DCD		DCD	DCD	9 00	65 6	8	god	000	000	5
GB Ace Cede	1	1	1	1	1	1	1	1	1	-			1	1						1	_	-	-	1	1	1	_	1		1	-		-	1	-	-
G8 Bearce	2	×	7	×	×	×	×	×	7	×	×	×	7	×	×	3	×	×	×	×	7	×	×	×	M	X	×	X	×	×	×	×	3	3	×	7
GB Elevation	9797	9797	2987	1963	0997	4678	4963	4676	1880	989	4876	4876	4876	1981	4646	1942	4842	979	4847	4847	4840	4966	9997	4863	4865	1981	1987	1969	1968	4868	9997	1965	9997	4797	1797	4704
X,Y Ace Code	8	64	•	69	~	64	67	e,	64	•	64	~	64	69	04	94	69	00	64	64	~	64	64	G4	64	8	ce	64	8	8	64	64	64	~	64	•
X,Y Bourse	7	H	×	×	×	7	X	×	7	×	×	7	×	×	2	7	×	×	7	7	7	×	3	X	Я	X	×	R	X	X	Ħ	М	Я	X	×	72
X (Rest)	1,766,685	1,766,885	1,767,900	1,767,525	1,767,236	1,767,080	1,767,676	1,767,470	1,767,450	1,767,590	1,767,385	1,767,515	1,767,950	1,767,835	1,767,126	1,767,400	1,767,460	1,767,600	1,767,820	1,767,900	1,767,700	1,768,060	1,766,000	1,768,370	1,768,260	1,768,170	1,764,450	1,764,465	1,764,530	1,764,560	1,764,596	1,764,496	1,764,450	1,763,390	1,763,425	1 700 ALK
* (Reath)	900,120	900,040	799,590	799,860	900,100	900,190	900,260	900,300	900,846	909,900	900,590	901,600	077.000	901,300	900,755	901,190	901,860	901,710	901,600	901,730	981,960	901,345	901,230	901,466	901,300	801,020	793,560	788,687	783,642	793,604	793,555	783,516	793,530	796,400	798,437	704 990
	88-36-030	88-36-021	88-88-022	88-96-623	88-36-024	88-36-026	88-36-626	88-36-027	88-36-028	88-36-029	86-36-036	88-36-631	88-36-633	88-36-033	88-36-034	28-36-636	88-26-636	129-36-88	88-36-036	88-36-630	88-36-040	88-36-041	88-34-043	88-36-043	88-36-044	88-26-046	88-27-001	88-27-002	88-27-003	88-27-004	88-27-006	88-27-006	100-12-88	88-28-001	88-38-002	900 90 900
Site Type	SURF	SURF	SURF	SURF	SURF	SURF	SURP	SURF	BURP	SURF	SURF	SURP	SURF	SURF	SURF	BURP	SURF	SURP	SURF	SURF	SURP	SURF	SURP	BURF	SURP	SURP	SURP	SURP.	SURP	SURF	SURP	SURP	SURP	BURF	SURF	2010

سينيي		سنر			_	خسر		-		_		_	_	_	_	_		_		_	Ė	_	_		·	_	_	_	_	_	_	_	_	_	_	_
Let	6 50	650	DCD	000	DCD		900	636	DCD	650	DCO	000	000	600	650	650	900	600	98	830	000	62	8	600	900	900	8	000	990	000	82	92	82	900	000	DCD
GB Ace Code	1	-	-	-			-		1	-	1	-		-	-		1		-			-	-	1			1	-	1	-	-		-	1	-	1
G8 Source	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	*	×	×	×	×	7	×	×	×	×	×	×	×	7	×	×	X
Code GB Elevation	4800	7800	4800	4798	4797	4880	4880	4890	4880	4880	4880	4632	4830	4828	4826	4826	4828	1626	1834	1824	- 0687	9699	4630	4784	4784	194	4764	4883	4860	4872	4872	4867	1963	1967	4957	4800
X,Y Ace Code	•	64	64	64	64	00	64	64	64	~	~	~	84	64	~	~	~	~	~	•	600	••	••	•	~	8	œ	8	8 7	8	64	8	8	64	64	64
X,Y Source	×	×	×	7	×	×	×	×	7	×	×	×	×	×	×	×	×	×	×	X	×	×	7	Z	X	X	X	X	X	X	H	X	X	H	X	Ж
X (East)	1,763,515	1,763,615	1,763,440	1,763,360	1,763,230	1,764,742	1,764,768	1,764,785	1,764,745	1,764,732	1,764,730	1,738,293	1,738,289	1,738,329	1,738,363	1,738,418	1,738,402	1,738,474	1,738,531	1,738,432	1,738,439	1,738,368	1,738,393	1,762,660	1,762,665	1,762,685	1,762,720	1,766,438	1,766,184	1,766,091	1,766,044	1,764,980	1,764,793	1,764,737	1,764,701	1,767,060
Y (North)	798,296	798,270	798,020	798,130	798,100	792,963	792,974	792,962	792,922	792,925	792,945	793,066	793,134	793,221	793,104	793,226	793,160	793,186	293,119	793,127	792,928	793,010	793,044	800,247	800,162	800,176	800,103	794,576	794,238	794,600	794,622	794,861	794,420	794,878	794,801	904,025
Site ID	88-28-004	88-28-006	88-28-006	88-28-007	800-82-88	100-98-88	88-34-003	88-34-003	88-34-004	88-34-006	88-84-006	100-12-88	88-37-003	88-37-003	88-37-004	900-28-88	88-37-006	28-37-007	88-37-006	88-37-009	88-37-010	88-37-011	88-87-012	100-86-88	88-38-603	88-38-003	100-98-88	88-42-001	88-42-002	88-42-003	88-42-004	88-42-006	88-43-006	88-42-007	88-42-006	100-91-88
Site Type	SURF	SURP	SURF	SURF	SURP	SURF	SURF	SURP	SURP.	SURF	SURF	SURF	SURF	SURP	SURF	SURF	SURF	SURF	SURF	SURF	SURF	SURF	BURP	BURP	SURF	SURP	SURP	SURF	SURF	SURP	SURF	SURP	SURF	SURP	BURP	SURP



T.	8	000	62	g	8	8	8	8	88	8	8	8	8	8	8	8	8	8	88	8	900	DCO	82
GB Ace Code	1	-	-	1	-	-	-	-			•	1	-	-	1	1	1		1	7	,,,,,		•
GS Searce	✝	×	×	×	×	X	X	×	X	×	×	×	X	X	×	×	X	×	7	×	**	7	×
26 Plevation	987	9547	9897	9597	885	9097	4796	4796	9199	4010	253	827	9539	9597	9897	0887	0887	9697	9899	4780	4790	478	1901
W V And Cade GB Blovatle		•	04	•	•	•	~	•	8	•	*	~	~	•	-	~	•	*	~	-		-	•
V V Parame	Т	1	7	7	×	×	×	×	×	×	×	×	Ħ	×	×	×	×	7	7	X	×	M	71
W (Back)	100 606		1 765 860	1,766,900	1.764.406	1,764,400	1,763,900	1,764,200	1,764,126	1,764,136	1.766,160	1.766.176	1,766,150	1,766,126	12	1,764,810	1,764,636	1,760,500	1.700.300	1.765.953	1.762.243		1,764,250
	100 000	200 CO.	200.000	120	780,460	780.456	701.926	798.260	788.450	704.466	786.626	796.400	786.500	756.250	782.250	788.250	798,950	806,002	240,246	784 140	201.30	784.166	799,860
41.0		00 14 000	700 77 80	20.46.666	88-46-066	28-46-007	88-46-666	26-46-60	88-46-010	110-97-98	88-46-013	26.46.013	110-22-08	88-46-016	88 46 616	28-46-017	88-46-016	SW-14-601	878.14.662	Sec. 44.001	STW 45.000	874 44 440	SW-47-001
4 - 110	A COLOR	Series .	STIPS OF	SC Be	BURP	SURP	SUPP	SURP	SUR	BURP	200	SCIES	SUBS	SUB.	SURP	SURP	8089	1,400	1400	0071	OOA!	1400	SUMP

	 		بيسم				 	 				است				,					,
ENTRY		ENTRY			EMTRY		THE		XI	ಶ	KEG	8	BW-SDL	GR	3	OP-OM	Ŕ	OP-GM	ಶ	MD-MD	B
INI	Z	Z	MAA		呂	E	E	H	MA	E	Z	E	H	H	E	F	E	E	Z	TIME	TA
UNITE	£	STINO			STINS		STENS 5														
VAL FT	101.6	VALFT	90.0	·	VALFT	0.0	VALET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
METHOD	5	METHOD	8		METHOD	23	METHOD	5	10	5	10	5	5	10	10	10	8	10	16	10	10
STDATE ORG LAB DEPFT INT PT ACT MEAS METHOD VAL FT UNITS	DPTOT	ACTMEAS	NOGWT		ACTMEAS	ADVAU	ACTMEAS	UŞCS	USC	USCS	USCS	USCS	USCS	UBCS	UBCB	UBCB	UBCS	USCS	USCS	USCS	USCS
INT PT	0.0	INIT	0.0		FEET	0.0-101.6	TATA	9:0	9	2.5	6.6	4.6	6.0	6.0	6.0	17.0	0.0	2.0	9.0	10.0	11.6
DEPFT	0.0	TAGE	0.0		DEPFT	0.0	DEPTT	0.0	6.0	14.6	20.0	26.6	80.0	36.0	40.0	46.0	62.0	70.0	72.0	80.0	90.0
ORG LAB	Z	ORGLAB	3		ORCIAB	7	ORGLAB	75	M	3	3	3	3	75	3	JK	3	K	H	71.	75
STDATE	07/23/92	STEMATE	07/23/92		STAATE	07/23/82	STIALTE	07/23/82	07/23/22	07/23/92	07/22/02	07/28/92	20123123	07/23/22	67/23/9 2	07/25/83	07/23/92	5455110	07/23/92		
SITKID	SB-01-001		8B-01-001			100-10-ES		SB-61-001	SB-01-001	100-10-85	EB-01-001	SB-01-001	8B-01-601	83-01-001	8B-01-001	SB-01-001	SB-01-001	SB-01-001	SB-01-001	83-01-001	SB-01-001
SITETYP SITEID	BORR	STETTE	BORE		STIETYP	BORE	BITTETTE			BORE		BORE		BOBE			BORE			BORE	



ENTRY		ENTRY		ENTRY			ENTRY	718	70	7	TM	סא	אנד	MO-MO
E	M		TA			72.		E	MA	H	H	72.7	H	744
	H	BLINS		BLINS										
VAL PT UNITE	101.6	VALFT	0.00	VALET		0.0	VALLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
METHOD	10	METHOD VALFT UNITE	10	METHOD		22	METHOD	8	16	16	10	10	5	10
ACT MEAS	DPTOT	ACTIMERAS	NOOWT	ACTMEAS		ADVAU	ACTINERAS	8385	10808	CBCB	CBCB	5080	UBCB	UBCB
RT	9:0	TELEN	0.0	FEE		0.0-101.5	E	55	10.0	120	80.08	16.0	22.0	3
DEPTT	0.0	DEPT	0.0	DEPT		0.0	DEFT	0.0	6.0	16.0	27.0	67.0	76.0	87.0
EV1 080	3	ORGIAB DEPTT	3	CROEAS	·	3	ORGIAB DEPTT	3	3	7	7	7	75	3
STATE	OTTANA	STAATE	07/27/03	FIRE		24/22/10	STAGE	STATE	STATES	STATINE.	20177170	STATION	STATION	29/12/10
	SB-01-002	STEED OF	8B-01-003			SB-01-062		83-11-68	88-01-68	8B-01-66	SB-01-083	SB-01-063	200-10-00	200-10-03 00-10-03
BITTI	BORE	Betterre	BORE	Brienry		BORK	STEETTP	BORE	BORE	BORR	BORE	BORE	BORE	BORE

Г	7.2	Π	Τ	Τ	2	:	Τ	Τ	2	:	Т	T	2	Γ	Т	T	T	Т	Т	T	T	Τ	Τ	15	i
	ENTRY	<u> </u>			PATTRY				VOMPA	_			ENTLEY		ML	E	3	B	K	ON	K	8	5	UMU	
	TY.		PPM		Ž		700		Ž		Mad				M	764	7	75	M	E	MA	MA	7	76	
L	STIND		E		INTER				91170				CHITS												
	VAL FT		101.6		VALPE		900	3	VALPE		0.0		VALIT		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	METHOD		8		METHOD		5	;	METHOD		23		METHOD		5	6	5	5	8	5	10	10	10	10	
	ACT MEAS		DPTOT		ACTIVEAS		NOOM		ACTMEAS		ADVAU		ACTMERAS		1808	1808	6080	8280	USCS	DBC8	1808	USCS	USCS	8080	
	INT FT		0.0		INTERIOR	+	0,0		TELEN	+-	0.0-101.6		THE !		9	9.9	23.6	0.6	6.0	2.0	1.0	22.0	6.0	17.0	
	DEPFT		0.0		DEPFT		0.0		DEPFT		0.0		DEPFT		0.0	6.0	11.0	34.5	36.0	40.0	46.0	46.0	68.0	73.0	
	BTDATE ORG LAB DEPFT		JM	•	TTDATE ORGIAB		3		ORGLAB		75		ORGIAB		M	J K	71	M	JM.	ž	75	7	ž	š	
	STDATE		7/26/92		STDATE		7/26/92		STEATE		7/26/92		PITDATE		7/26/22	7/26/92	7/26/92	7/26/92	1/26/22	1/28/92	7/26/92	1/26/82	1/26/82	7/26/82	
	STTKID		SB-01-003		STIKED		8B-01-003		BITEE		SB-01-003		STITES		SB-01-003	SB-01-003	8B-01-008	8B-01-003	SB-01-068	200-10-83	SB-01-068	2B-01-003	8B-01-063	SB-01-003	
	STETTE	7	BORE		HETT		BORE		ITTELL		BORE		Trefre						\neg	Т	Т	T	7	BORK	

_		- +	_		····	_		 	-		.,		_									
	KNTRY				ENTRY			ENTRY				ENTRY		¥	B	F	MAG	DW-ON	GM	5	OM	5
	Ę				E		7	E		1		E		2	E	12	E	E	E	1	E	MA
	UNITS		7.2		SELVES			STINS				UNITE										
	VAL FT		101.0		VALFT		9.0	VALET UNITE		0.0		VALFT		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	METHOD VAL FT		3		METHOD		10	METHOD		23		METHOD		8	5	5	10	5	5	70	5	10
	ACT MEAS	T. T. T. T. T. T. T. T. T. T. T. T. T. T	וטונת		ACTMEAS		NOGWT	ACTIMITAS		ADVAU		ACTMEAS		2080	8080	8080	CBCB	8080	UBCB	8080	USCS	UBCB
	INT FT		2		THE		00	INTER!		0.0-101.6		INTEL /		28	10.0	2.5	1.6	7.5	38.0	2.6	10.0	1.0
	DEPFT		2.5		DEPT		90	DEPT		0.0		DEPFT		0.0	28.6	36.6	41.0	42.6	60.0	98.0	90.6	100.5
	TDATE ORG LAB	7			ORGIAB DEPFT		7	ORGIAB DEPFT		7		ORGLAB DEPFT		75	M	75	715	75	75	J.V.	J.K	75
	STDATE	MAKA9			STDATE		07/25/92	STDATE		24/36/10		STEMATE		C1/26/92	07/26/92	07/25/ES	01/2E/22	07/26/83	07/26/92	07/26/92	07/26/92	07/26/93
	BITED	SP 61 004		_			SB-01-004	STIELD		8B-01-004				88-01-004	8B-01-064	SB-01-00-	20 OF 60 OF	SB-01-004	20 OF 00 OF	SB-01-004	88-01-004 88-01-004	8B-01-004
	BITTETTE	BORE	Т		BITETYP		BORE	Breery		BORE		METTE									_	BORE

ENTRY			ENTRY			ENTRY		ENTRY	CM	J D	8M	CM	M	ಶ	ZĘ	GM	GW-GM	3	ಕ	GM	GW-GM
Z	FPM		E		FPM	E	FPM	INT	FPK	FFW	FPL	F	FP	F	FPM	FPM	FW	FM	FE	M	FF
BLIND	F		BLIND			STIND		UNITB													
VAL FT	101.6		VALET		0.00	VALFT	0.0	VALFT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
METHOD	10		METHOD		5	METHOD	22	METHOD	8	10	10	8	10	10	10	8	10	5	10	10	10
ACT MEAS METHOD VAL PT UNITS	DPTOT		ACTMEAS		NOGWT	ACTMEAB	ADVAU	ACTMEAS	108C8	USCS	USCS	UBC8	USCS	USCS	USCS	8280	U8C8	UBCB	USCS	USCS	USCS
INT	0.0		INTER		0.0	INTET	0.0-101.6	INTEL	6.0	6.0	5.6	8	2.0	3.0	11.0	24.0	27.0	3.0	0.6	1.6	11.6
DEPFT	0.0		DEPFT		0.0	DEPTT	0.0	DEPFT	0.0	6.0	10.0	15.6	18.0	20.0	23.0	84.0	68.0	86.0	98.0	88.5	90.0
TDATE ORG LAB DEPFT	75	•	ORGIAB		3	ORGLAB	75	ORGIAB DEPFT	32	75	75	7	75	35	7	75	75	JM	M	JK	JJK
STDATE	07/25/92		BTDATE	-	07/26/93	BTDATE	07/25/93	STDATE	07/26/92	28/92/10	26/32/10	07/25/92	07/26/92	07/25/92	07/26/92	07/26/92	07/26/92	07/25/92	07/26/92	07/26/92	07/26/92
 SITEID	SB-01-006		BITED		8B-01-006		SB-01-00G	BITTED	SB-01-006	SB-01-006	SB-01-006	8B-01-006	SB-01-006	SB-01-006	SB-01-006	8B-01-006	SB-01-006	SB-01-006	SB-01-00E	8B-01-006	SB-01-006
SITETYP	BORE		BITETYP		BORE	BITETYP	BORE	BITETTE		BORE (BORE		BORE (BORE (

	 _		 _	_			_		1	1	_		_	_			_					_		
KALMA		ENTRY			ENTER			ENTRY		3 8	ಶ	XI.	3 M	Ħ	ಶ	M	ຢ	Ħ	OP-GN	ಶ	GP-GC	5		OP-ON
K	PPM	FE	MAI		Z		E	E		E	E	7	Z.	PE	MAA	MAL	MA	H	E	Z	TEX	Z	E	12.0
UNITE	M	SHIND			SELN5			SEENS																
VAL PT UNITS	101.6	VALFT	0.00		VALT		0.0	VALFT		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
METHOD	10	METHOD	10		METHOD		22	METHOD		5	5	5	10	5	10	10	10	8	5	5	10	5	10	10
ACT MEAS	DPTOT	ACTMIRAS	NOGWT		ACTMEAS		ADVAU	ACTHERAS		nece	USCS	CBCS	8080	USCS	USCS	USCS	0808	11808	UBCS	USCS	USCS	USCS	USCS	2080
MFF	0.0	FEE	0.0		INTER		0.0-101.6	INTEL		13.0	6.6	8.6	4.6	16.0	11.6	979	3.6	4.0	8 .0	4.0	1.0	17.0	7.0	1.6
DEPPT	0.0	DEPFT	0.0		DRPFT		0.0	DEPFT		0.0	13.0	18.5	24.0	28.6	43.5	66.0	61.6	66.0	680.0	71.0	75.0	76.0	93.0	100.0
ORG LAB	75	ORGIAB	75		ORGIAB		75	ORGIAB		77.	3	75	M	75	311	· JM	7,	75	3	7	77	75	77	H
BITDATE	07/30/92	STDATE	24/20/10		STEATE	•	67/30/88	STAGE		3	5	E	2	61/30/82	8	8	8	8	5	5	Š	5	23/20/23	5
STITED	SB-01-006	STITED	SB-01-006			·	SB-01-000		┲	SB-01-000	28-01-00	SB-01-006	SB-11-090	88-01-66	SB-01-004	30-10-63	SD-10-08	10 GB	20 10 BB	10-10-EE	10 OF TO CO	10-ES	SD-01-006	900-10-83
STIETTP	BORE	SITETYP	BORE		STITE		BORE	STITE						BORE			1				200	l I		

ENTRY		T	ENTRY			ENTRY			ENTRY	K	5	ZZ.	B	CM-GC	ည	GW-GM	QX G
N N			INT ED		N.S.W	THE PARTY OF THE P		T-N	INT ED	PPM	77.			_	PPM	PPW GV	FPM
}						 -			ш	7	PPM	MAL	FPM	MA	1	14	E
UNITS	1 1	3	UNITS			STEAS			LIND								
VAL FT	3 10	101.0	VALFT	98.0	3	VALFT		0.0	VALFT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
METHOD VAL FT	l	5	METHOD		5	METHOD		23	METHOD VALFT UNITS	10	10	10	5	5	10	10	5
ACT MEAS	2000	urior	ACTMEAS		NOCAL	ACTMEAS		ADVAU	ACTHERAS	0808	USCS	USCS	USCS	USCS	USCS	USCS	USCS
INT		0.0	INTEL		3	INTEL		0.0-101.5	INTL	36.0	4.6	2.6	17.0	1.6	6.5	12.0	21.6
DEPFT		3	DEPFT	00	2	DEPFT	П	0.0	DEPFT	0.0	36.0	40.6	43.0	90.0	61.5	68.0	80.0
TATE ORG LAR DEPFT			ORGLAB	24	*	ORGIAB		336	ORGLAB DEPFT	JK	75	3			75	JJK.	JM
STDATE	ou ou ou	01/20104	STDATE	300	70/27/10	STDATE		01/29/92	STEATE	07/29/92	20/22/10	22/22/10	07/29/92	07/29/92	07/28/92	07/29/02	07/20/20
STIRID	2000	100-10-dic	BITTEID	200 00	100-10-00	SETTED		SB-01-007		SB-01-007	8B-01-007	SB-01-007	SB-01-007 07/29/92	SB-01-007	SB-01-007	BB-01-007	SB-01-007
S	aaya		SITETYP		a direction	STETTE	П	BORK	SITETYP	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE

F	1	1	7)			2		-	—						I	೮	
ENTRY				ENTE			ENTER			ENTE	KE	38	Ħ	ಶ	K	GW-GN	OM-OC	S.
		7		F		FPK	됨	75		名	E	Z	E	75	TA	FPK	MAL	FPA
UNITB		T.		UNITE			CINTIB			UNITE								
VAL FT		101.6		VALFT UNITS		0.00	VALFF	0.0		VALFT UNITS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
METHOD		01		METHOD		5	METHOD	22		LETHOD	5	10	5	5	10	5	10	10
ATE ORG LAB DEPPT INT PT ACT MEAS METHOD VAL PT UNITS		DPTOT		ACTMEAS		NOGWT	ACTMEAS	ADVAU		ACTMEAB	UBCB	CBCS	5280	USCS	USCS	USCS	USCS	USCS
INT FT		0.0		THE		0.0	INTER	0.0-101.6		INTEL	13.0	9.6	81	4.6	0.0	28.0	6.0	1.6
DEPPT		0.0		DEPPT		0.0	DEPT	0.0		DEPPT	0.0	13.0	22.6	63.6	58.0	67.0	96.0	100.0
ORG LAB		. JM		ORGIAB DEPFT		775	ORGIAB	75		ORGIAB DEPFT	5	7	3	75	75	75	75	JK
STDATE		07/28/92		STACTE	•	07/28/8C	BITDATE	07/26/92		STEATE	07/26/02	07/72672	20/25/20	20/22/10	07/28/93	07/28/93	07/28/02	07/28/PS
SETTE D		SB-01-006		BITTE		SB-01-008	STITELLD	SB-01-008		GETTE	SB-01-006	SB-01-006 07/	SB-01-000 07/	8B-01-006 07//	SB-01-006 07/	71.0 BOO-10-88	SB-01-006	8B-01-006
BITETYP		BOKE		SITETYP		BORE	BITETITE	BORE		SITETYP	BORE	BORE	BORE	BORE	BORE	BORE	BORE	BORE

		_		_		 	 	 									
ENTRY			ENTRY			ENTRY		ENTRY	MG	MD	ML	IJ	ME	ぴ	KL	BM	CE
M	FPM		E		TPL	E	E	Z	72	727	TLE	THE	Ter	FP	FE	MA	FPL
UNITE	M		BLINS			UNITE		CINTIB									
VAL FT UNITS	101.6		VALFT		0.00	VALFT	0.0	VALFT UNITS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
METHOD	5		METHOD		10	METHOD	8	METHOD	5	10	10	10	5	5	5	8	10
ACT MEAS	DPTOT		ACTMEAS		NOGWT	ACTHERAS	ADVAU	ACTMEAS	1808	USCS	USCS	USCS	UBCS	USCS	USCS	U8C8	USCS
INT PT ACT	0.0		INTERIOR		0.0		0.0-25.0		0.6	8.0	9	0.2	6.5	0.0	64 64	2.5	2.0
DEPFT	0.0		DEPPT		0.0	DEPFT	0.0	DEPFT	0.0	2.0	6.0	9.0	11.0	17.6	18.3	20.6	23.0
ORG LAB DEPPT	75		ORGLAB		75	ORGIAB DEPT INTFT	75	ORGIAB DEPPT INTPT	75	7	7	75	H.	75	7	75	75
STEATE	06/25/92		STDATE		06/25/92	STEDATE	06/35/92	STAATE	06/25/92	06/25/92	06/25/92			8	3	3	06/25/92
STIKID	SB-45-001		STITED		100-97-88	BETTERD	SB-46-001	SETTE	8B-46-001	SB-45-001	SB-46-001	SB-45-001	SB-46-001	SB-46-001	SB-45-001	SB-46-001	SB-45-001
SITETYP	BORE		SITETTE		BORE	SITETIF	BORR	SITETYP	BORE	BORE	BORE			-	BORE		BORE

ENTRY			ENTRY		ENTRY		ENTRY	76	MO	OP-OM	KE	GW-GM	GP-GM	E CE	8	8	OP-OM	OW-OC	KECE	S S	ಶ	8	MO	GP-GC
M		PM	E	F	Z	Z	Z	2	TAK	72.	12	75	125	TEL	MA	1	1	TA	3	FPA	F	ME	H	PPK
		P	BLINS		SELVE		SELNS																	
AVT LL		101.5	VALFF	90.0	VALFT	0.0	VALPT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
METHOD		10	METHOD	6	METHOD	22	METHOD	5	10	8	10	5	5	5	10	10	10	10	10	10	10	10	10	10
INT FT ACT MEAS METHOD VAL FT UNITS		DPTOT	ACTMEAS	NOGWT	ACTHERAS	ADVAU	ACTMEAS	USCS	USCS	USCS	UBCB	USCS	USCS	USCS	USCS	USCS	USCS	USCS	USCS	USCS	USCS	USCS	USCS	USC8
INT FT		0.0	INTER	0.0	FEE	0.0-101.6	FEFF	6.0	9.0	6.0	8.0	8.0	6.0	1.0	4.0	10.0	6.0	6.0	6.0	6.0	6.6	4.6	25.0	1.6
DEPFT		0.0	DEPFT	0.0	DEPT	0.0	DEPT	0.0	6.0	10.0	15.0	17.0	25.0	30.0	31.0	36.0	46.0	60.0	66.0	60.0	66.0	70.5	76.0	100.0
DATE ORG LAR DEPFT		H	BYIDHO	7	ORGIAB	7	ORCEAR	3	75	75	X	77	JJ.	H	J.K	3X	75	JH	27.	75	75	JA	7	7
STDATE		07/22/92	STDATE	07/22/92	BTDATE	07/22/93	STDATE	È	3	3	21/22/13	3	3	2	3	B	È	8	3	8	B	È	B	07/22/92
BITTEID		SB-BK-006	STIKED	8B-BK-006	GELLE	8B-BK-006	SITED	900 MH-HS	SB-BK-006	SB-BK-006	8B-BK-006	SB-BK-006	SB-BK-006	8B-BK-006	8B-BK-006	SB-BK-006	8B-BK-006	SB-BK-006	8B-BK-006	8B-BK-006	8B-BK-006	SB-BK-006	88-BK-006	SB-BK-006
SITETYP	\neg	BORE	SITETYP	BORR	8TTETYP	BORE	BITTITE	BORR			BORE			1	1		l t		- 1		ł	BORR	•	BORR

TEAD-N PHASE I RFI

DATA ENTRY FORM FOR THE GEOTECHNICAL MAP FILE (GMA)

Person completing form:

Project: N TEAD Phase I RFI

X,Y Accuracy -

	TION: TN (Toos	ie Army Depot, i	North Area)			Date:			
	ractor: JM	JST have X. Y co	ordinates and (SS elevation					
Site Type (See List • Attached)	Site ID (Name of Well,	State Plan (ST	e Coords	X,Y Source	X, Y Acc.	GS Elevation (ft MSL)	GS Source (S or M)*		Init.
							•	·	
									
					<u> </u>				
				<u> </u>					
			<u> </u>						
									
						-			
						•			
				<u> </u>	-				
				i	-				
	,								
* Codes :	X, Y Source -	S= Surveyed, or (or other reliable		yed referenc	e poin	ts M- Estima	ted from a l	JSGS (map

0 = 1 meter, 1 = 10 meters, 2 = 100 meters

(or other reliable site map)

GS Accuracy - 0 = 1 ft, 1=10 ft, 8 = 0.1 ft

GS Elev. Source- S- Surveyed, or by using surveyed reference points. M- Estimated from a USGS map

Appendix I



MONTGOMERY WATSON

APPENDIX I

USATHAMA SOURCE WATER AND BENTONITE APPROVALS, AND TEAD-N EXCAVATION AND WASH WATER DISCHARGE PERMITS

I.O.O.1. Appendix I presents the documentation obtained by JMM project personnel preparatory to the commencement of field activities at TEAD-N. This documentation consists of:

- A completed Bentonite Approval Request Form, submitted to USATHAMA and approved as per Section 4.3.4. of the project Data Collection Quality Assurance Plan (DCQAP) (JMM, 1992b), authorizing the use of the intended type(s) of well-sealing material (Page J-2)
- A completed Water Approval Request Form, which was submitted and approved
 as per section 4.1.2 of the DCQAP, allowing the utilization of water from base
 supply well No. 3 (WW-3) for project use, including decontamination activities
 (Page J-5)
- A copy of the Excavation Permit issued to JMM by the TEAD-N Depot Facilities
 Division. Due to the presence of buried utilities at the various SWMUs, this
 permit was required by TEAD N for the subsurface investigations (soil borings
 and excavation test pits) which were conducted (Page J-7)
- A copy of the Discharge Permit issued by the TEAD-N Environmental Management Office which was required for the discharge of rinsate collected during decontamination activities. This rinsate was discharged to the TEAD N industrial wastewater treatment plant (IWTP) (Page J-17).



DEPARTMENT OF THE ARMY US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ASERDEEN PROVING GROUND, MARYLAND 21010-8401 JUDE 26, 1992



Installation Restoration Division

Mr. David Shank
James M. Montgomery Consulting Engineers
4525 S. Wasatch Boulevard
Suite 200
Salt Lake City, Utah 84124

Dear Mr. Shank:

This Agency has reviewed the two types of bentonite which you submitted for review for use at Tooele Army Depot-North Area. Both bentonites have been approved and the signed "Bentonite Approval Request" forms are enclosed.

As verbally requested, it is acceptable to this Agency to grout all the deep borings and the 25 ft. boring at Solid Waste Management Unit 45.

Point of contact for this Agency is the undersigned at (410) 671-1523/3240.

Sincerely

Mary Ellen Heppner Contracting Officer's Representative

Enclosure

Copy Furnished (without enclosure):

Commander, U.S. Army Chemical Research, Development and Engineering Center, Attention: SMCCR-PCB (Mr. Steve Bryant), Aberdeen Proving Ground, Maryland 21010-5401

> RECEIVED Jul 1 1992

JAMES M. MONTETTEY

BENTONITE APPROVAL REQUEST

Army Installation for Intended Use:

Bentonite Brand Name: Well Plug 1.

2. Bentonite Manufacturer: Black Hills Bentonite Company

Manufacturer's Address and Telephone Number: P.O. Box 9, Mills, WY 82644 3.

(307) 265-3740

Product description (from package label or attached brochure): Granular Well Plug 3/8" to 3/4"

5. Intended Use: Backfill shallow boreholes (i.e. less than 25 feet deep)

SUBMITTED BY:

Company: James M. Montgomery Consulting Engineers

Person: David L. Shank Jr.

Telephone: (801) 272-1900

Date: 6-2-92

USATHAMA APPROVAL/DISAPPROVAL:

Project Officer/Date: My the Hunn | 4 Jan 92 A D

Project Geologist/Date Harry Woods 15 June 92 A D

MSDS Attached





BENTONITE APPROVAL REQUEST

Army installation for intended Use:

- Bentonite Brand Name: Fluid Dril Mud 1
- Bentonite Manufacturer: M-1 Drilling Fluids Company 2.
- Manufacturer's Address and Telephone Number: P.O. Box 42842, Houston, TX 77242 3. (713) 561-1507
- Product description (from package label or attached brochure): Drilling fluid compound 4.
- Intended Use: Bentonite-Cement grout additive for backfill in deep boreholes 5. (i.e. 25 feet deep or greater)

SUBMITTED BY:

Company: James M. Montgomery Consulting Engineers

Person: David L. Shank Jr.

Telephone: (801) 272-1900

Date: 6-2-92

USATHAMA APPROVAL/DISAPPROVAL:

(check one)

Project Officer/Date: | May Eleva) Juny 1 4 Jun 72 A D
Project Geologist/Date Harry 4/50 de 15 June 92 A D

MSDS Attached



TEAD-N PHASE I RFI



DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY ABERDEEN PROVING GROUND. MARYLAND 21010-5401 June 26, 1992



Installation Restoration Division

Mr. David Shank
James M. Montgomery Consulting Engineers
4525 S. Wasatch Boulevard
Suite 200
Salt Lake City, Utah 84124

Dear Mr. Shank:

This Agency has reviewed the chemical analyses submitted for well WW-3 at Tooele Army Depot - North Area and finds the water acceptable for use as "USATHAMA-Approved Water" for your field program. A copy of the signed approval form is enclosed.

This water source will remain approved for six months from the date of analysis (i.e., November 6, 1992). If you need to utilize this water source beyond that date, the well will need to be resampled.

Point of contact for this Agency is the undersigned at (410) 671-1523.

Sincerely,

Mary Ellen Heppner Contracting Officer's Representative

My Ellen Derr

Enclosure

Copy Furnished (without enclosure):

Commander, U.S. Army Chemical Research, Development and Engineering Center, Attention: SMCCR-PCB (Mr. Steve Bryant), Aberdeen Proving Ground, Maryland 21010-5423

RECEIVED

JUL 1 1992

JAMES M. MONICUMERY

WATER APPROVAL REQUEST FORM

ARMY INSTALLATION FOR INTENDED USE:

1. Water source: WW-3

Owner:

U.S. Army

Address:

Tooele Army Depot, Utah

Telephone number:

(801) 833-3386

2. Water tap location:

Operator:

Directorate of Installation Operation Utilities

Branch Chief, Tom Ware

Address:

Tooele Army Depot T3S, R4W, Sec 31

Application No. 15 377

3. Type of source:

Aquifer:

Sand and gravel

Well Depth:

700 fast

Static water level from ground surface: 355 feet

Date measured:

Not available

4. Type of treatment prior to tap: None

5. Type of access: 2-inch spigot

6. Cost per gallon charged by owner/operator: No charge

7. Attach results and dates of chemical analyses for past two years. Include name(s) address(s) of analytical laboratory(s).

See attached

8. Attach results and dates of duplicate chemical analyses for project analytes by the laboratory certified by, or in the process of being certified by, USATHAMA for those analytes.

See attached

SUBMITTED BY:

Company:

James M. Montgomery, Consulting Engineers, Inc.

Period:

May 6, 1992 to May 6, 1993

Telephone number:

(801) 272-1900

Date:

June 2, 1992

USATHAMA APPROVAL (A)/DISAPPROVAL (D):

(Check one)

Project officer: Why illn / Hype Project chemist/date: DScarlorough (18/92

D

EXCAVATION PERMIT (Proponent Agency is Depot Facilities Division) (RZAD-R 420-16)

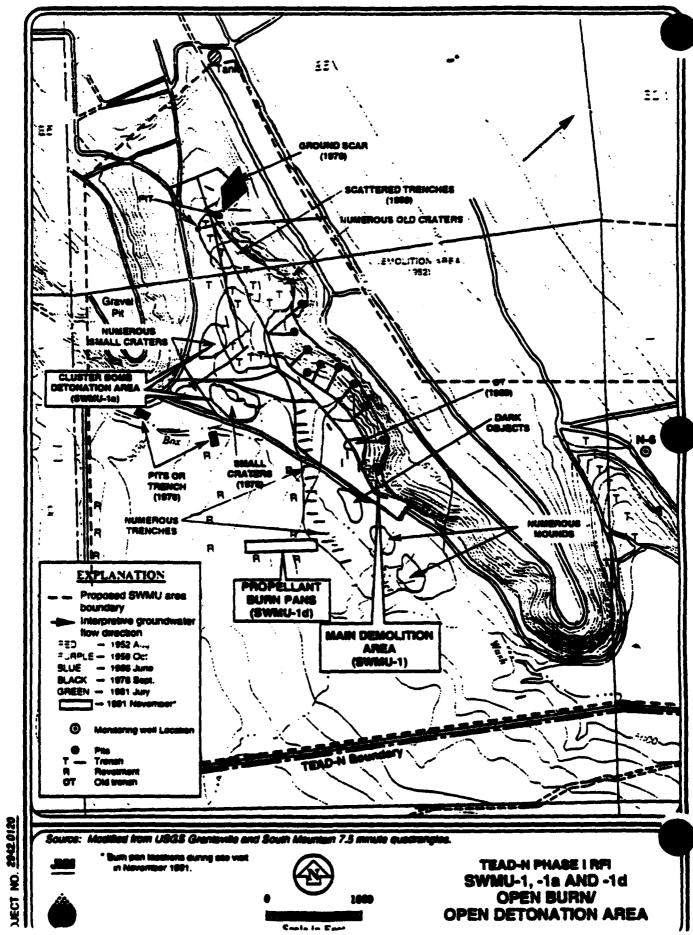
	EXCAVATION RECLESTED BY A AMILIA - 75 / 512 PHONE #33-35 4	
	LOCATION OF EXCAVATION See Alluckateris)	
	DATE OF EXCAVATION See feterted Schedule	
	PURPOSE OF EXCAVATION Soil SOMPLING for the TOTO-N APT Phose I Study	
	NAME OF DIRECTOR TO NOTIFY THAT EXCAVATION IS TAKING PLACE IN OR NEAR A BUILDING OR FACILITY UNDER HIS RESPONSIBILITY	
For	RODGER G. OLSON, Director of Instit Opens G.D. Welste	
	DATE DIRECTOR MAS NOTIFIED	
	-NGTIFICATION SHALL BE MADE 24 HOURS IN ADVANCE-	
	BASED UPON DRAWINGS AVAILABLE AND PERSONAL KNOWLEDGE THE AREA FOR WHICH I AM RESPONSIBLE IS FREE OF UNCERGROUND FACILITIES OR SYSTEMS EXCEPT AS NOTED:	
	SIGNATURE COMMENTS	
BLdas	ELECTRICAL Komor Savane	
	MECHANICAL THE MAN	
	SANITATION Themes header	
<u> </u>	ROADS & GROUNDS	
W	FACILITIES BRANCH CHIEF A Ster Li Corp. 3711	
+	CHIEF, FACILITIES June 1. Howell ENGINEERING DIVISION Gerald Liebster	
ا - د د	CONTRACTOR & CONTR	
	COAXIAL CABLE MANAGER PO MUST COL 24 MLS Pri	ع
	NOTE: THIS PERMIT IS TO BE COMPLETED AND ATTACHED TO THE WORK ORDER PRIOR TO THE WORK ORDER BEING ISSUED.	(
	**EXCAVATOR MUST HAVE A VALID PERMIT IN HIS POSSESSION BEFORE AND DURING EXCAVATION **	
*	WATER + sener line, Throughout Dissing them	

USATHAMA/TEAD-N Phone I RFI Field Schedule - Team A

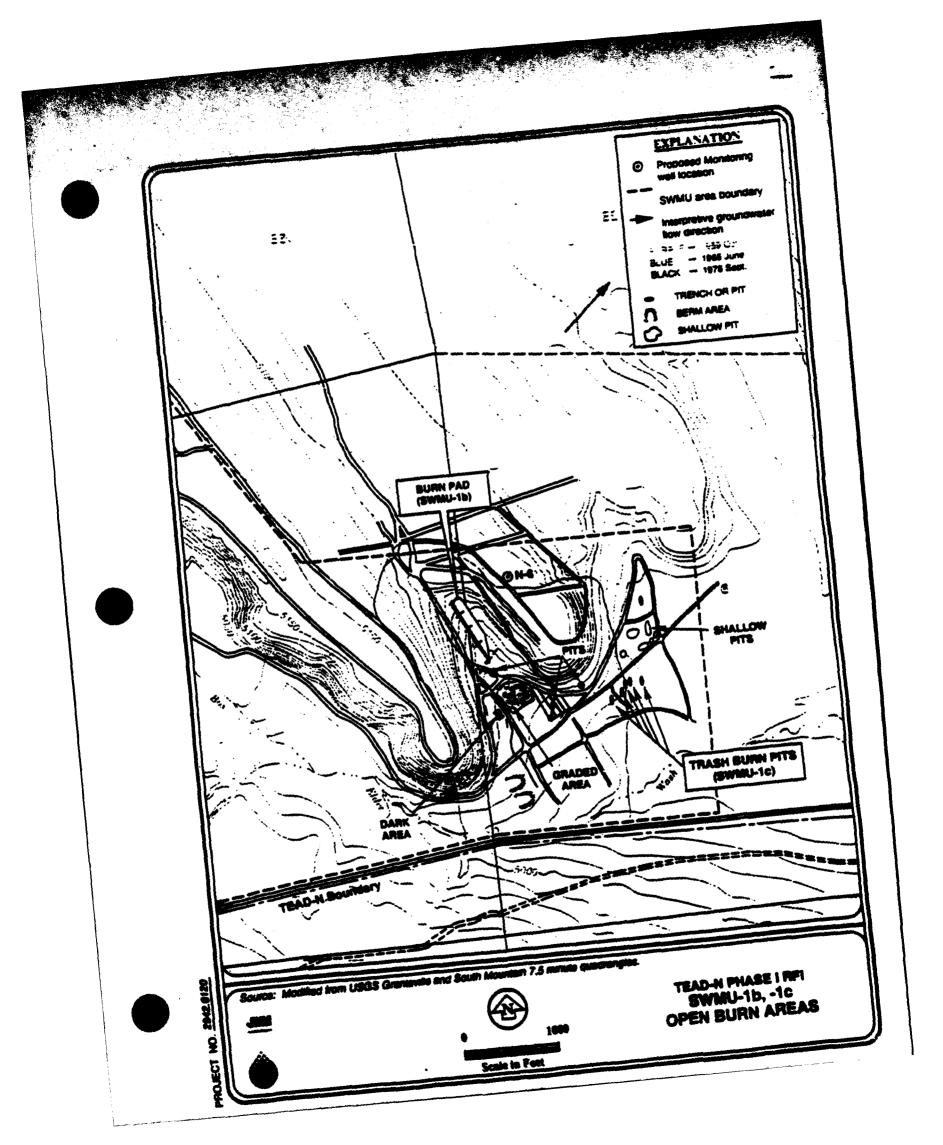
SWMU Number	Description	Stort Date	End Date	Duretion (days)	Activity
1	Main Demoition Area	5-26	6-4	10	Conduct survey, construct decon pad, begin test pit excesses
		6-9	6-18	10	Continue test pit encuvations
		7-21	7-24	4	Drill and sample deep soil borings
18	Cluster Bomb Area	6-23	6-28	6	Dig and sample test pits
	·	7-25	7-26	2	Drill and sample deep sail barings
10	Burn Pans	6-59	6-30	2	Dig and eample test pits
		7-27	7-28	2	Drill and sample deep sail boring
1 b	Propellent Sum Pad	7-1	7-3	3	Dig and sample test pits
		7-29	7-30	2	Drill and sample deep still borings
1¢	Trash Burn Pits	5-26	5-26	1	Survey geophysical control points
		6-23	7-2	10	Conduct geophysical surveys
		7-7	7-9	3	Conduct graphysical surveys
		7-7	7-15	9	Dig and eartple test pits
		8-4	8-6	3	Drill and sample deep sail borings
	Background Soil	8-7	8-8	2	Drill and sample deep sail boring
	Box Elder Wash	8-9	8-10	. 2	Collect surface soil semples

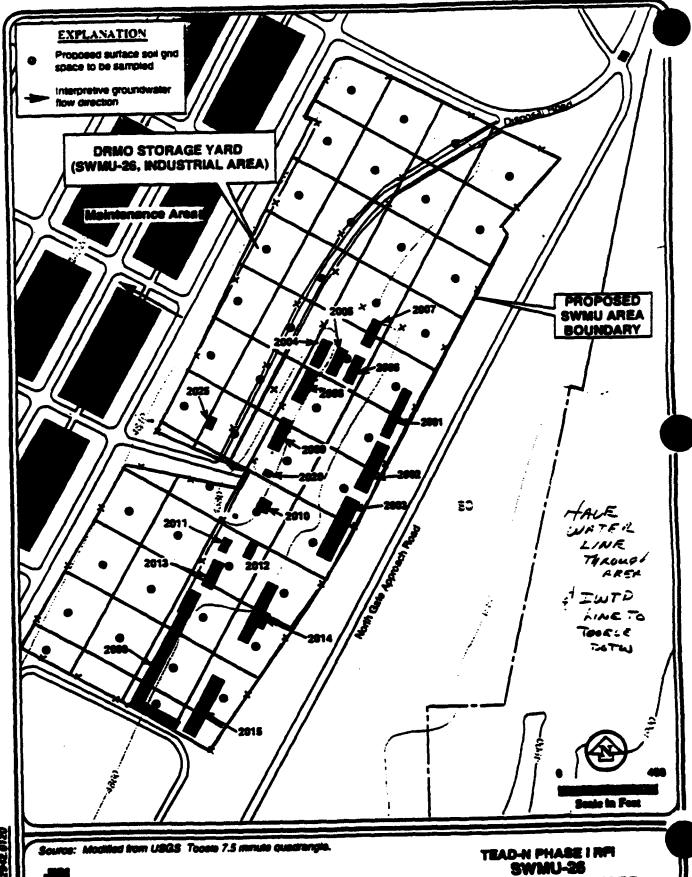
USATHAMA/TEAD-N Phase i RFI Field Schedule - Team B

SWMU Number	Description	Start Date	End Date	Duration (days)	Activity
NA.	Ground Water Levels	6 - 9	6-10	2	Measure ground water levels (round 1)
		12-10	12-11	2	Measure ground water levels . (round 2)
29	Drum Storage Areas	6-11	6-17	7	Dritt and sample shallow soil borings
42	Bomb Washout Building	6-18	6-19		Ortil and sample shallow soil borings and collect surface soil samples
		6-23	6-24	2	Oriti and sample shallow soil borings and collect surface soil samples
26	DRMO Storage Yard	6-25	6-30	6	Drill and sample shallow soil
45	Stormweter Discharge Area	7-1	7-2	2	Collect surface water and sediment samples, drill and sample soil boring
28	90-Day Drum Storage Area	7-7	7 - 7	1	Callect surface soil samples
27	RCRA Container Storage Area	7 - 8	7-8	1	Collect surface soil samples
14	Sewage Lagoons	7-9	7-11	3	Collect surface water and sediment samples, collect ground water samples
		10-8	10-9	2	Collect ground water samples
19	AED Demilitarization Test Facility	7-12	7-13	2	Collect surface soil samples
20	AED Deactivation Furnace Site	7-14	7-14	1	Collect surface soil samples
21	Descrivation Furnace Building	7-15	7-15	1	Collect surface soil samples
34	Postcide Handling and Storage	7-16	7-16	1	Collect surface soil samples
37	Contaminated Waste Processing Plant	7-21	7-21	1	Collect surface soil samples
38	Industrial Wastewater Treatment Plant	7-22	7-22	1	Collect soil and GAC samples
4	Sandblast Areas	7-23	7-23	1	Collect surface soil samples
46	Used Oil Dumpeters	7-24	7-28	5	Collect surface and shallow soil samples
47	Boiler Blowdown Water	7-29	7-29	1	Collect surface water and settiment samples
NA	Bediground Soils	7-30	7-30	1	Collect surface and shallow soil serrates



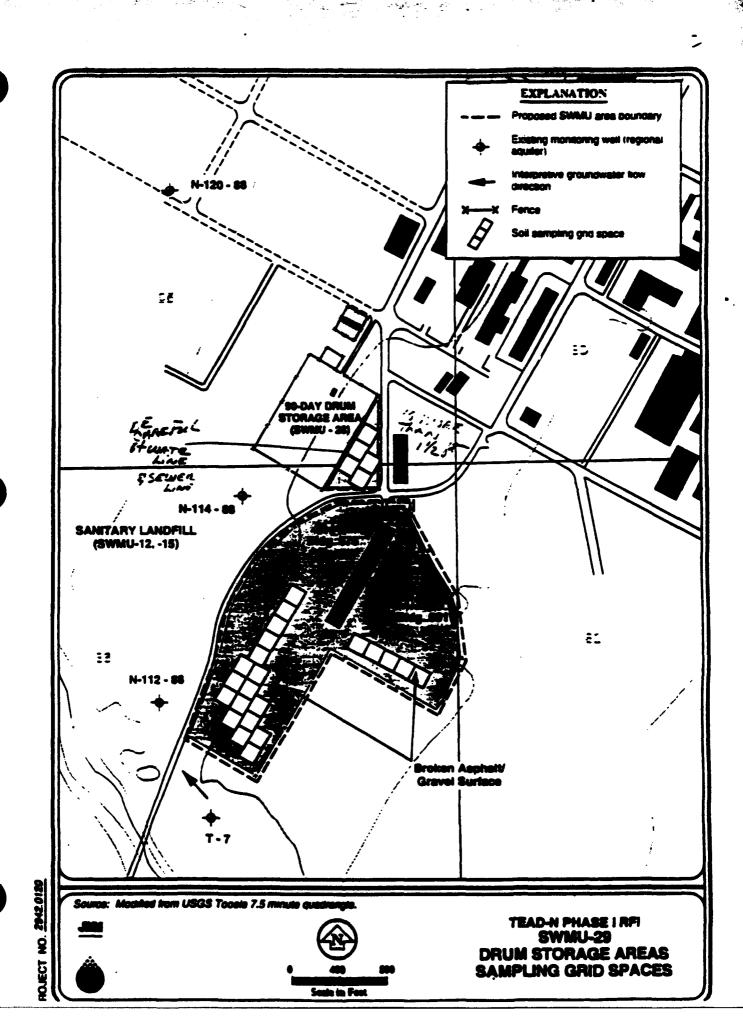
2242.0120

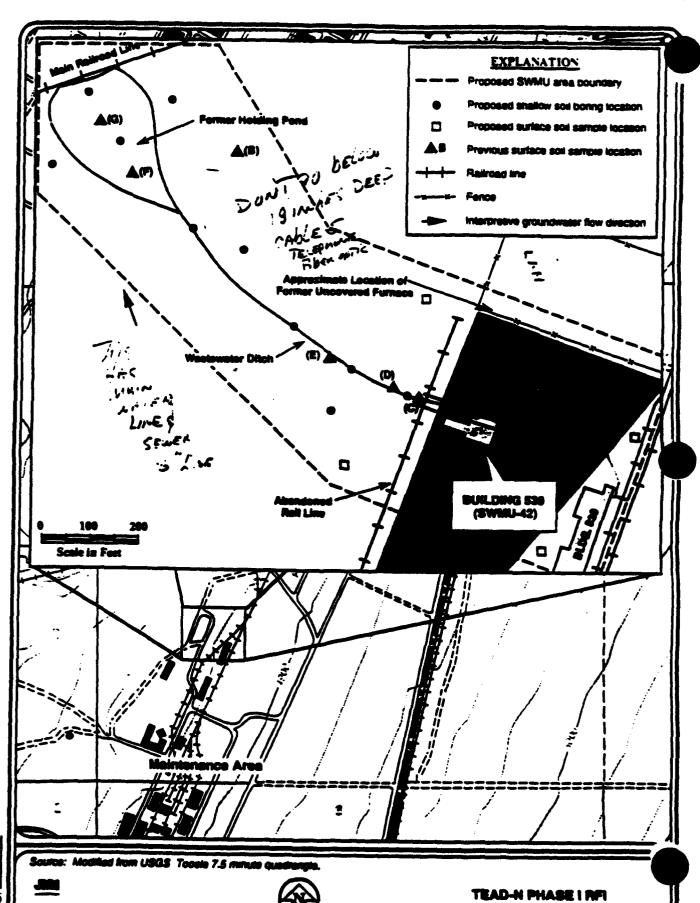




DRMO STORAGE YARD GRID SAMPLE SPACES

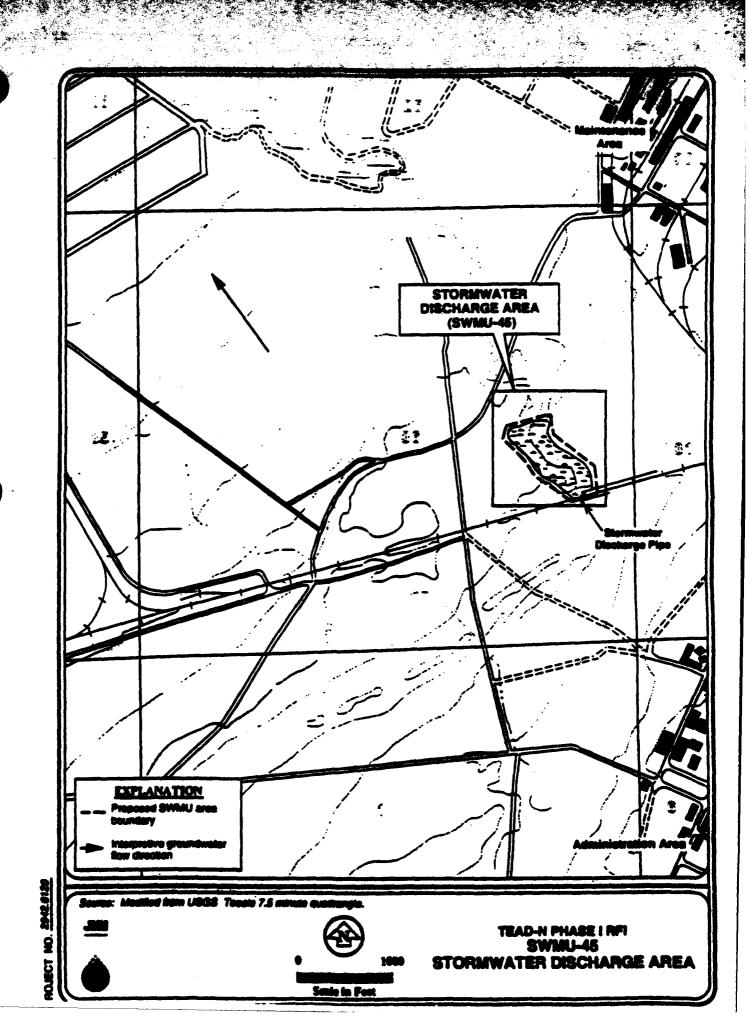
LECT NO. 1742

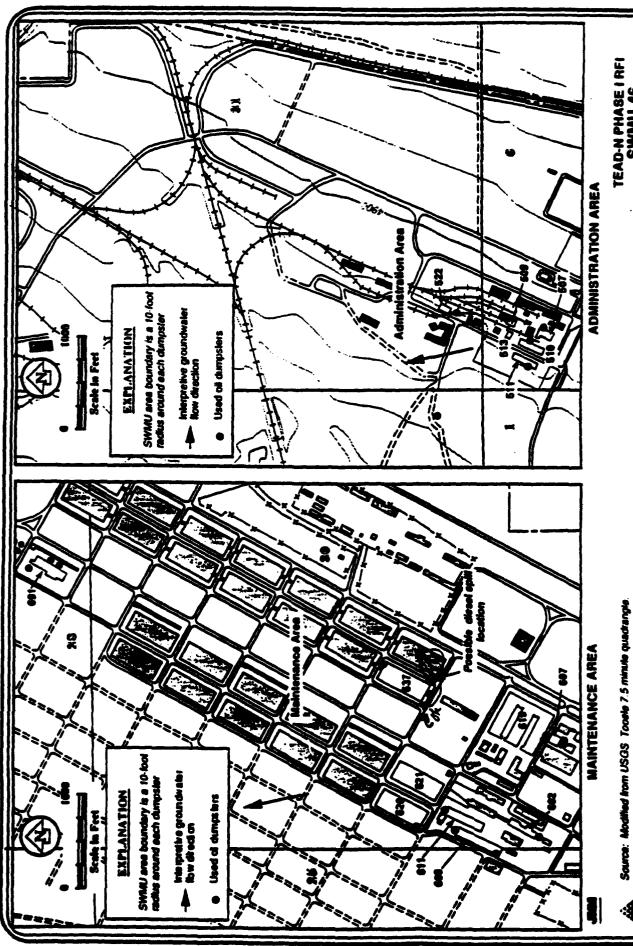




BOMB WASHOUT BUILDING

NECT NO. 2942 0120





TEAD-N PHASE I RFI SWMU-46 USED OIL DUMPSTERS

Appendix J



APPENDIX J

GEOTECHNICAL TESTING RESULTS

J.1 INTRODUCTION

J.1.0.1. This appendix presents the data from the geotechnical testing program conducted on selected soil samples collected during the course of the RFI field investigation at TEAD N. As outlined in Section 4.3.7 of the RFI Data Collection Quality Assurance Plan (DCQAP)(JMM, 1992b), approximately 12 percent of the soil samples collected were submitted to Dames and Moore, Inc. for analysis at their geotechnical laboratory in Salt Lake City, Utah. These soil samples were submitted for the purpose of confirming the onsite soil descriptions and Unified Soil Classification System (USCS) designations made on all collected soil samples.

J.1.0.2. As described in the DCQAP, the following criteria were used in determining which soil samples were submitted:

- At least one sample from each major soil horizon at each SWMU
- At least one soil sample from each soil horizon encountered at the background soil locations
- Samples representative of each major soil unit encountered in the deep soil borings at the OB/OD Area.

J.2 GEOTECHNICAL PROGRAM

J.2.1. Geotechnical Program Summary

- J.2.1.1. A total of 74 selected soil samples were submitted for the following analyses:
 - Particle size determination using sieve analysis, including percent moisture content

- Atterburg Limits analysis
- · Specific gravity determination.

J.2.1.2. Results were received for 74 sieve analyses, 71 Atterburg Limits analyses, and 73 specific gravity determinations. Three soil samples lacked sufficient quantity to run Atterburg Limits analyses, and one of these samples was insufficient for a determination of specific gravity. USCS designations were not made for the three samples which were not tested for Atterburg Limits.

J.2.2. Summary of Sample Results

J.2.2.1. Sieve Analysis. The soil samples were placed through a total of 10 sieves, ranging in size from 37.5 mm to 0.075 mm (#200), and the percent of total weight retained on each sieve was recorded. On the basis of the sieve analyses, the following designations were made for the 74 tested samples:

- Fourteen of the soils were gravels (i.e. the largest fraction of the soil, by weight, was composed of material which was retained on a #4 sieve)
- Thirty-two of the soils were sands (i.e. the largest soil fraction, by weight, passed a #4 sieve, but was retained on a #200 sieve)
- Twenty-eight of the samples were fine-grained soils (i.e. the largest fraction of material, by weight, passed a #200 sieve).

J.2.2.2. Atterburg Limits Analysis. Three soil samples lacked sufficient quantity to attempt Atterburg Limits analysis, and 39 samples were not sufficiently plastic as to allow Atterburg determinations. The results of the 32 completed analyses are as follows:

- Thirteen of the soils were designated as lean clays (CL)
- Eleven of the soils were designated as silts (ML)
- Eight of the samples were given the classification CL-ML, a borderline designation between lean clay and silt

- No designations of CH (fat clay) or MH (elastic silt) were made
- The Plasticity Index determinations (Liquid Limit minus the Plastic Limit) for the analyzed samples ranged from 1 to 17.

J.2.2.3. Specific Gravity Analysis. Results of the Specific Gravity analyses can be summarized as follows:

- Specific gravity determinations of fine-grained soils ranged from 2.599 to 2.776 g/cc.
- Specific gravities of the coarse-grained soils ranged from 2.488 to 2.890 g/cc.

J.2.2.4. USCS Designations. To make a final laboratory USCS designation, results from the sieve and Atterburg Limits analyses are both used. The final USCS classifications for the submitted soil samples are summarized as:

(% of Total Samples)
13 (18%)
38 (54%)
6 (3%)
3 (4%)
11 (15%)

J.2.3. Comparison of Field Call-Outs With Laboratory Classification

J.2.3.1. In general, there was good agreement between the field call-outs and the laboratory classifications. Forty-seven of the submitted soil samples (66 percent) were correctly classified in the field by the field geologists. Of the 24 discrepancies, many resulted from the sampling procedure methodology. Soils submitted for geotechnical testing were generally those left in the sample bowl after the analytical sample aliquot had been removed. As this analytical sample aliquot was collected from the finer-grained portion of the soil sample, its removal left the coarser fraction of the sample (especially the gravel-size fraction) for geotechnical analysis. For this reason, many of the 24 discrepancies between the field call-outs and the laboratory classifications resulted from laboratory analysis of nonrepresentative soil samples.

DAMES & MOORE

127 SOUTH 500 EAST. SUITE 300. SALT LAKE CITY. L'TAH 84102-1-54 (801) 521-9255 FAX: (801) 521-0380

October 1, 1992

Deborah Carter-Drain James M. Montgomery Consulting Engineers Salt Lake City_Utah

Dear Deborah

Please find enclosed results of soil analysis you requested in your letter dated August 20 1992.

Results include 74 Particle analyses (no hydrometer) with moistures, 71 Atterberg limits, and 73 Specific Gravity analyses.

A summary page precedes the test results which notes discrepancies encountered during testing.

Please call me if you have any questions (521-9255).

Sincerely,

Dames & Moore, Inc.

Erick E. Rosik

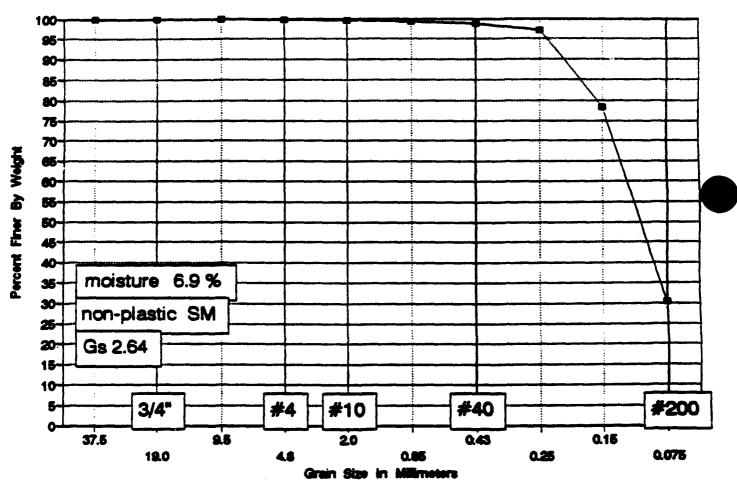
Soils Laboratory Manager

CA CHECK TONING	(25)	Depth (ft)	0.02	0.0.2	0.03	0.0.2	0.0.2	0.0.2	0.0.2	0.0.2	0.0.2	0.0.2	0.0.2	0.0.3	0.0.2				1		. :	
		Site ID	\$3.19.006	\$8.20.016	/SS-21-001	_6S-26-026	SS-26-034	SS-27-007	✓SS-28-008	√SS-34-006	SS-37-008	√SS-38-002	88-41.008	√§S-46-009	SS-46-018							
		Depth (ft)	0.3	0-3	0.3	0.2.6	0.4.5	0.6	0.6	9-0	9.0 16	90 THU	9-0	90 光	()	9	2-4.6	1-1.2	1.1.2	99	0.0.3	0.0.2
		Site ID	SB-26-005	~SB-26-009	✓\$B-26-013	√\$B-29-002	✓SB-29-005	VSB-29-013	∕ SB-29-018	/SB-29-019	√\$B-29-020	√SB-29-022	✓SB-29-029	★160-63-85	SB-42-002	SB-42.008	/SB-42-011	✓SB-46-014	SB-46-015	/SB-BK-006	√SD-45.001	\$3.01.004
		Depth (ft)	0.5.1	4.6.6	6.5.5	9.5-10	0.1	4.5-6	5.5.5	3.5-4	6-5.5	A3.4	67.8	6.5-6		16	10	20	25	45	25	100
280	hry	Site ID	ZEP-01-064	ZEP-01-066	ZEP-01-066	✓EP-01-074	ZEP-01-079	/EP-01-064	ZEP-01-090	✓EP-01-096	✓EP-01-100	ZEP-01-104	ZEP-01-106	/EP-01-118	✓8B-01-001	SB-01-002	✓SB-01-003	/SB-01-004	·/SB-01-005	√SB-01-006	∨SB-01-007	✓8B-01-006
111 An 11 Jameer 1	Jample Summ	Depth (ft)	4.5	5.5.5	6-6.6	2.6	2	0-1	5-6.5	6.5-7	3.6-4	6-6.5	6.6.7	6-5.6	0-1	4.6.6	2.6-3	6.6.7	5.5.5	0-1	4.5.5	1.2
111 Paris	Geotochaical Sample Summary	Site ID	ZEP-01-001	ZEP-01-006	JEP-01-007	ÆP-01-010	VEP-01-012	ZEP-01-017	✓EP-01-022	VEP-01-026	✓EP-01-027	ZEP-01-032	✓EP-01-037	ZEP-01-044	✓EP-01-049	VEP-01-060	/EP-01-062	VEP-01-063	ZEP-01-068	ZEP.01.069	ZEP-01-061	/EP-01-063

48-42-005 28. BK-001 could not proming the extend did not have exact.

EXCAVATION PIT SAMPLES OB/OD AREA (SWMUs 1, 1a, 1b, 1c, 1d)

GRADATION CURVE Site EP-01-001, Sample at 4 to 5 feet



James M. Montgomery P.O. 2942-0130

Site ID EP-01-001	Wt soil and dish Dry soil & dish	193.9 188.1
Depth- 4-5 feet	Dish	103.5
Maidenna Contant = 69	•	

SIEVE ANALYSIS

Dry weight of total sample= 84.6

Sieve Size	Weight Retained	Finer	t Finer	Sieve opening mm
1.5 inch	. 0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	Ŏ	100.00%	100.0	9.5
# 4	0.31	99.63%	99.6	4.8
# 10	0.44	99.484	99.5	2.0
# 20	0.56	99.34%	99.3	0.85
# 40	0.95	98.88%	98.9	0.43
# 60	2.41	97.15%	97.2	0.25
# 100	18.46	78.18%	78.2	0.15
4 200	50 06	20 219	30 3	0.075

DE NUMBERDCST	OWNER/CLI	ent Ulit Montgor	neky_
DRING EP-OL	SAMPLE	001 DEPTH _	4-5'
NUMBER OF RINGS	LAY	DISH	197
WT. OF RINGS & WET SOL WT. OF RINGS	0	WT. OF DISH & WET SOL WT. OF DISH & DRY SOL	193.9
WT. OF WET SOL. FIELD DENSITY		WT. OF MOISTURE	1035
		WT. OF DRY SOL	1.4

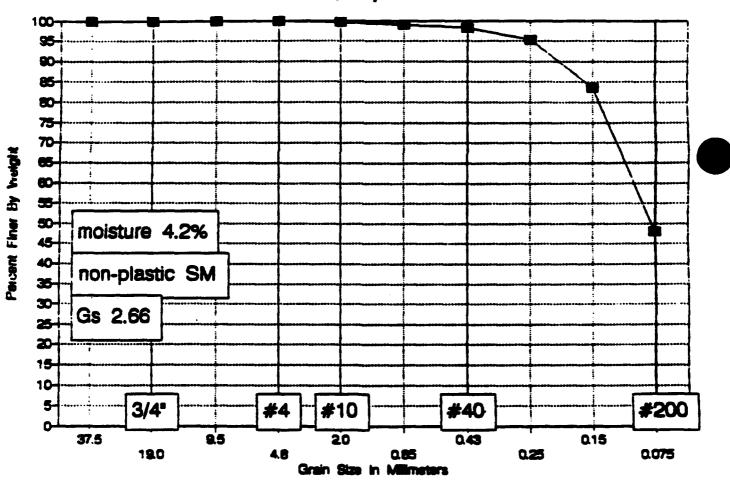
DISH	DIBH	SIEVE	WEGHT	ACCUMULATIVE WEIGHT	ACCUMULATE	E PERCENT
NUMBER	WEIGHT	NAMBER	RETUNED	RETAINED	RETAINED	FNER
		3"				
		1-1/2				
•		· 3/4°				
		3/8-		0		
		#4		0.31		
		PAN				
		TOTAL				

				ACCIM	A	COMPLATIVE PER	TASK T
OISH NUMBER	WEIGHT	SEVE NUMBER	NETWED	WEIGHT PARTIAL		TRAL	TOTAL
	<u> </u>			RETARED	REPARED	rver .	rver.
		#10		0.44			
		#20		0.56			
		#40		0.95			
		#60		2.41			
		#100		18:46 58:96			
		#200		58.96			
						·	
		PAN					
		TOTAL				•	

RBERG LIMITS TEST DA						J06 (17/20	HER.		m	M	70	VI	6	OL)	Z
						LOCA	HON.			\1			<u> </u>			
GPATORY CLASSIFICATION		-				9:	1104. 38140		20	SA	MPLI	: <u>C</u>	ΙΟΙ	- 0	EPTH	١.
FIELD DENSITY #1	•//	•														
DETERMINATION	_ 1		2		7 [DETERMI	AT IO	N)		T		1		Т		2
NUMBER OF RINGS					1 [DISH								T	-	_
WT OF RINGS + WET SOIL] [WT OF B	5n -	730	501							
WT OF RINGS						WT OF D	15H +	ORY	501					T		
WT OF WET SOIL		_				WT OF M	DISTU	RE								
FIELD DENSITY					1	WT OF D	I S #							T		-
DRY DENSITY] [WT OF DE	RT 50	l L					_			_
THIS IS AN 1/8-IN	CH THREAD			_		FIELD MC	LSTU	NE CO	MTE	11				1		_
PLASTIC LIMIT BY LOF	9997	•		•										•		_
					1	3				_		<u> </u>		-		_
DETERMINATION	1/1/1	- / \	AL C		┼		74	┪	·	7			10	+		6
WT OF DISH + WET SOIL	X1-4	-/- -	سالم	7	+	<u> </u>	241	41		ar				P	1	_
WT OF DISH + DRY SOIL	 \		-/-	/	 	*****			10	4	10	' 	/	+-		
WT OF MOISTURE	- 	-	-	<u> </u>	-					1	_	—	-			_
WT OF DISH	1.4		\overrightarrow{J}	<u>x</u>	+	*******	+	******		+				+-		
WT OF DRY SOIL	المناكر ا	+	710	7	-		i				_		_	1		_
MOISTURE CONTENT	/	-\-		-+	┼─-		┽			\dashv	-			╀		_
					<u> </u>								_			_
IOUID LIMIT																
DETERMINATION	1	1	2			3	/	4				5			(5
DISH	YAL 8	B.	Д.	01	V	711 /			1	21		Y	70	1 6	2	E
NUMBER OF BLOWS			7												te.	
WT OF DISH + WET SOIL			<u>\</u>			ΔL			سسب	1	RI			<u> 1</u>	nt	_
WT OF DISM + DRY SOIL		_	_	_	_	<u>X</u>	1.			Ì	_		15	/		_
WT OF MOISTURE		7	/	<u> </u>	ļ									1		_
WT OF DISM	<u> </u>	-\	Ac	4	1 7	1.4	٠İ.				_		_	1		_
WT OF DRY SOIL	/	4			 / -		4			4				╄-		_
MOISTURE CONTENT	/				<u> </u>		<u></u>									-
							ŧ	. I QU	10	LIM	ΙT					
		.	7 - 7	<u> </u>	10	20	3	•	_				_	_	70	<u>_</u>
FLOW CURVE	+	 _ i _	\bot	PLA	STIC!	TY CH	ART	Щ		\sqcup				[_	_
														C	H	
		1:	1	\Box	\top										J	
	+-+	+ :	 	一十	十	1	\top	\vdash	_		_				7	_
		++	╁÷	$\vdash \vdash$	+-	 	+	┝┤					11/2	4	-	_
	\dashv	4	1	┝┿		├ ─├─		\sqcup	CL	\sqcup	_		4			<u> </u>
		:														
	T	1:	1	T						1						
	++	++	+ :	-	+-	 - - - - - - - - -	T									_
		++	 	 	+-	 	+-			\vdash						Ė
 		1 .	\mathbf{I} :		111	SL-ML	1111			OL-					Ш	L
									_						1 I	ı
							,								لــــا	L
5 7 20 15 NUMBER OF	.70 25			<u> </u>							٠.				Ш	L

NP

Site EP-01-006, Sample at 5 to 5.5 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-006	Wt soil and dish	244.5
Depth	5-5.5 feet	Dry soil & dish Dish	239.1 109.2

Moisture Content = 4.2

SIEVE ANALYSIS

Dry weight of total sample= 129.9

Sieve Size	Weight Retained	Finer	\ Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0.4	99.69%	99.7	2.0
# 20	1.4	98.92%	98.9	0.85
# 40	2.2	98.31%	98.3	0.43
# 60	6.2	95.23%	95.2	0.25
# 100	21.3	83.60%	83.6	0.15
# 200	67 4	40 115	49 1	0.075

DATE 9/10/92 JOB NUMBER 60001 LOCATION	BY	af m_ummonts	ancey
BORING EP-01	SAMPLE	00b DEPTH _	5-55
NUMBER OF RINGS	bag	DISH	36
WT. OF RINGS & WET SOL		WT, OF DISH & WET SOL	1244.5

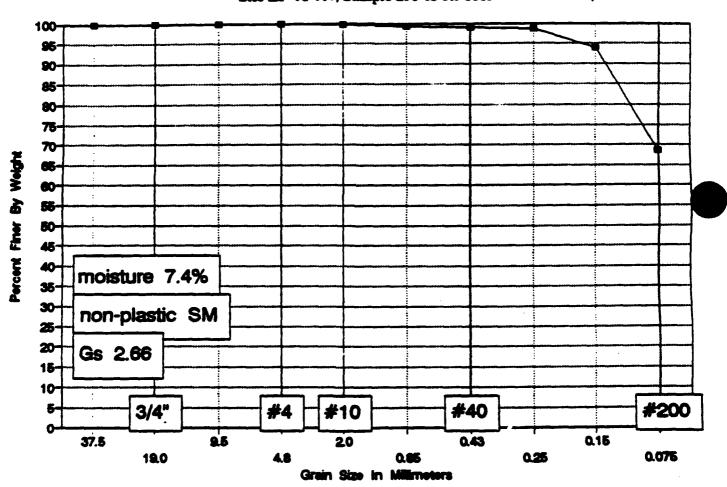
	WT. OF DISH & DRY SOL	2391
	WT. OF MOISTURE	
	WT. OF DISH	109.2
	WT. OF DRY SOL	
	FIELD MOISTURE CONTENT	4.2_
, ,		WT. OF MOISTURE WT. OF DISH WT. OF DRY SOIL

WASH SEVE	. DRY SEVE	WEIGHT OF OVEN DRY SOIL	(grams)
-----------	------------	-------------------------	---------

DISH	DISH	SEVE	E WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULATIVE PERCENT				
NUMBER	WEGHT	MAGER	REINNED	RETANED	RETAKED	rver .			
		3*							
	•	1-1/2"							
·		· 3/4°							
_		3/8"							
	·	*		0					
		PAN		·					
		TOTAL							

			·	ACCUM. WEIGHT RETANCED	ACCUMULATIVE PERCENT						
DISH NUMBER	WEGHT	MANGER	WEIGHT RETAND		PAR	TAL	TOTAL				
				16.46	REDWIED	rner.	MER				
		#10		.4		·					
		#20	·	1.4							
		#40		8.2							
		#60		6.2							
		#100		213							
		#200		67.4							
		PAN									
		TOTAL				•					

Site EP-01-007, Sample at 5 to 5.5 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-007	Wt soil and dish Dry soil & dish	227.4 219.1
Depth	5-5.5 feet	Dish	106.9

Moisture Content = 7.4

SIEVE ANALYSIS

Dry weight of total sample= 112.2

Sieve Size	Weight Retained	Finer	t Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	Ó	100.00%	100.0	9.5
# 4	Ó	100.00%	100.0	4.8
# 10	0.3	99.73%	99.7	2.0
# 20	0.8	99.29%	99.3	0.85
# 40	1.1	99.02%	99.0	0.43
# 60	1.6	98.57%	98.6	0.25
# 100	6.8	93.94%	93.9	0.15
# 200	35.1	68.728	68.7	0.075

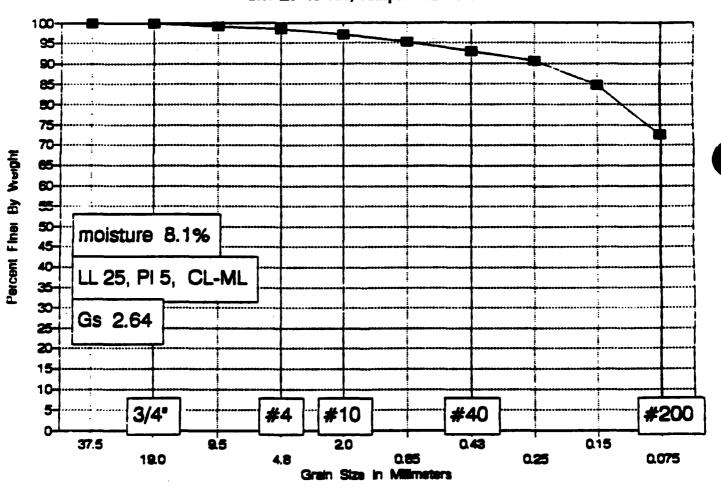
DATE	OWNER/CLE	NT JM Montso	mery
BORING EP-01	SAMPLE	007 DEPTH _	5-55'
NUMBER OF RINGS	VA3	DISH	169
WT. OF RINGS & WET SOIL	ر ن	WT. OF DISH & WET SOIL	227.4-
WT. OF RINGS		WT. OF DISH & DRY SOL	219.]
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	1 1069
DRY DENSITY	7	WT. OF DRY SOIL	
	,	FIELD MOISTURE CONTENT	7.4
WASH SIEVE DRY SIE	YE	WEIGHT OF OVEN DRY SOIL	(grams)

DISH	DISH	SIEVE	WEGHT	ACCUMULATIVE WEIGHT	ACCUMULAT	WE PERCENT
NUMBER	MOSR WEGHT	MAGER '	RETURN	RETAINED	REPORD	FINER
		3*				
	·	1-1/2*				
•		. 3/4				
		3/8"				
		#4		0		
		PAN		·		
		TOTAL				

				ACCUM	ACCUMALATIVE PERCENT							
	DISH DISH NUMBER WEIGHT	SEVE NAMER	WEDNED	T WEGHT	PAN .	TRAL	TOTAL					
				REPARED	RETAINED	PHER	RICER					
		#10		0.3		·						
•		#20		0.8								
_		#40		1.1								
		#60		1.6								
		#100		6.8								
		#200		6.8 35.1								
		PAN										
	•	TOTAL										

RBERG LIMITS TEST DAT	Å							J() ë K	0. <u> </u>			<u> </u>	ک	<u>ار ز</u>	<u> </u>			
10 SE4851F1S4TION													- 10	4,7	-				
SALTORY CLASSIFICATION _	. 		- - -					L	i AJC	ION.		7-1	ء اد	440:	5CV	77			
FIELD DENSITY ST									80	RING	: Et	יי ב	<u>.</u> 2	AMPL	. ين ر	<i>'</i>	_ ·	16 11	* <u>~</u>
DETERMINATION		1			2	\neg	Г	0 E T E	RMIN	AT 10	N .				1		\neg		2
NUMBER OF RINGS						ᆌ	h	D 15 H									+		
WT OF RINGS + WET SOIL						ヿ	_	wT o	F DI	5H +	WET	501	L				十		
WT OF RINGS	*********	********		********	*******		7	wT 0	F DI	5H +	OR Y	501	ī					*******	
WT OF WET SOIL			•				"	wT O	F M0	ISTU	RE			-			ŀ		
FIELD DENSITY						7	- 17	WT O	F DI	SH							_		
DRY DENSITY							7	T 0	F DR	Y 50	I L	* *****		-		_			_
THIS IS AN 1/8-INC								FIEL	0 10	I STU	RE C	ON T E	NT						
PLASTIC LIMIT BY BC.	9H1	<u>97</u>																	
DETERMINATION		1			<u> </u>			3				1			5,		$oxed{T}$		6
DISH			\bot							4_			\Box				$oldsymbol{\perp}$		
WT OF DISH + WET SOIL											*******				******				*****
WT OF DISH + DRY SOIL			.			į	_		_	1			.	_		_		_	
WT OF MOISTURE				······································			••••••			1_								•	
WT OF DISH			.			ļ	_		_				.	_	-	_		_	
WT OF DRY SOIL						\dashv				_							4		
MOISTURE CONTENT						ᆚ				丄									
IQUID LIMIT																			
DETERMINATION		1		2	?	T		3		Τ	- (5		T		6
DISH										T							\top		_
NUMBER OF BLOWS																			
WT OF DISH + WET SOIL																	\prod		
WT OF DISH + DRY SOIL			. 1		_		_			Ι.						_		_	
WT OF MOISTURE																			
WT OF DISH	_		.	-					_				.	_	<u> </u>	_	-	_	_
WT OF DRY SOIL					-	_				1			_				+		
MOISTURE CONTENT						_1_				1									
					0	. 10	0	2	0	l S	. I QU		L +		10		io	7	0
FLOW CURVE					PL	AST	ICIT	Υ (CHA	3									
																	C	Н	L
! ! !		T		1:						П									Γ
	+	╁╌		╁┼	├			_	┢			6:		_	Η.				┝
		┼	H	╁÷	-	H		_				CL	-		-	~	-		┞
		┼		 : -	_			_	<u> </u>			_		/	<u> </u>	-			<u> </u>
		<u> </u>	<u> </u>	↓								ļ.,	/	<u> </u>	$ldsymbol{ldsymbol{ldsymbol{ldsymbol{eta}}}$	<u> </u>			L
								<u> </u>								•	MH (0	H
									41 2/2										Γ
		1.	1.:.	1:			***				ML		OL-		T	\Box	Т		Γ
	,,,,,,	ш	11111	<u> </u>		1			1				<u></u>	<u></u>	<u> </u>	Ц.	1	<u> </u>	
5 7 10 15		25 J	0	40	50														

Site EP-01-010, Sample at 2.5 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-010		Wt soil and dish Dry soil & dish	268.3 256.4
Depth	2.5 feet	•	Dish	109.7

Moisture Content = 8.1

SIEVE ANALYSIS

Dry weight of total sample= 146.7

Sieve Size	Weight Retained	Finer	t Finer	Sieve opening mm		
1.5 inch	0	100.00%	100.0	37.5		
3/4 inch	0	100.00%	100.0	19.0		
3/8 inch	1.1	99.25%	99.3	9.5		
# 4	2.2	98.50%	98.5	4.8		
# 10	4.2	97.148	97.1	2.0		
# 20	7	95.23%	95.2	0.85		
# 40	10.2	93.05%	93.0	0.43		
# 60	13.9	90.52%	90.5	0.25		
# 100	22.3	84.80%	84.8	0.15		
# 200	40	72.73	72.7	0.075		

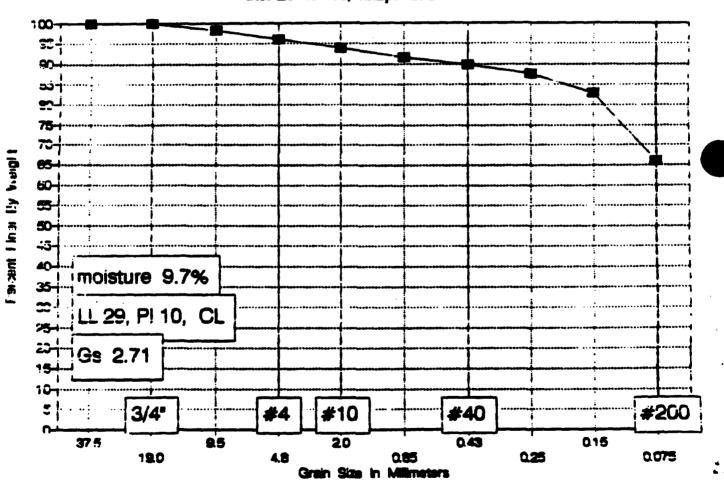
DATE 9/10/92 JOB NUMBER -6081 LOCATION	BY	on ummontoon	nery	-
BORING EP-01	SAMPLE	010 реги	25'	-
NUMBER OF RINGS WT, OF RINGS & WET SOIL	mag/	DISH WT. OF DISH & WET SOIL	206	
WT. OF RINGS WT. OF WET SOL		WT. OF DISH & DRY SOL. WT. OF MOISTURE	256.4.	
FIELD DENSITY DRY DENSITY		WT. OF DRY SOL	109.7	
WASH SIEVE DRY SIE	YE	MEIGHT OF OVEN DRY SOL	(grams)

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULATR	Æ PERCENT
NUMBER	WEGHT	NAMER	REDINED	RETAINED	RETANED	FNER
		3.				
		1-1/2"				
-		· 3/4°		0		
		3/87		1.1		
		#4		2,2		
		PAN		·		
		TOTAL				

				ACCURA	A	CUMULATIVE PERC	тек
DISH NUMBER	MEGHT.	SEVE NAMES	RETUNED	WEIGHT	PAR	TIAL	TOTAL
				.2	REDANED	THER.	AND.
		#10		4,2			
		#20		7.0			
		#40		10.2			
		#60		13.9			
		#100		22,3			
		#200		40.0			
		PAN					
		TOTAL					

	RG LIMIT										10	8 NO		4 F B		IV IV	Tr	776	2/1	-	OĽ	n	-
f (11) (143015404	T10N			. - -						10	ien Cati	0N _	45 4									_
: 465-47	OPY CLASS	(F) [47:08			. . .							27:) INC	1/5	20)] 5/	MPI	r Y	210) (EPTH	2	
FIEL	D DENSIT	ry ::	- ·	/	. . .							50.				<u>.</u>		٠. ٠	~_1 <u>L</u>	′- ·	, , , , ,	~	-
[0	ETERMINATIO)N			!			?	7	[o	ETER	M I N A	TION			7		1		1		ž	-
<u> </u>	UMBER OF RI	NGS	+			_			\dashv	-	ISH					-		<u> </u>		╅			-
<u> </u>	T OF RINGS		+	-		+			-	<u> </u>		015	H -	# 67	501				_	+		_	-
	T OF RINGS			•••••	******			*******	-				H +						••••	-			-
}			┥・					_				***				-	-				_		-
<u> </u>	T OF WET SO		+-						4			*********	STUR							-			_
<u></u>	ELD DENSIT	Y	-			_			4	-	1 01	DIS	H				_		_		_		_
	RY DENSITY		ــــــــــــــــــــــــــــــــــــــ							-			501			_				1		_	_
PLAS	THIS TIC LIMI	T BY LA						-			I E LO	#01	STUR	E CC	MTE	et		_					-
0	TERMINATIO	M	I	1			2		I		3							5.		I		6	-
0	SH			AL/	12	2	AL		\perp				<u> </u>										
w	OF DISH 4	WET SOIL		5	3OE			76							-								
	OF DISH 4	DRY SOIL	_ _	13.	30	·	13.	43			_	_					_						
•1	OF MOISTU	R E						····															•
•	OF DISH			1.6	4_	T		4_				_				T							
w	OF DRY SO) I L											`						_				•
W (STURE CON	TENT		9.	10		19:	37		X	= 2	20								Τ			•
LIOU	D LIMIT							_															-
DE	TERMINATIO	N	I	1			2				3			4	l 			5		Ţ		6	_
0.	SH		\perp		114		AL	90		A	11												
NU	MBER OF BL	OWS		14	43		Ц,	70		12	.7	7				\Box				$oxed{\mathbb{L}}$			
# 1	OF DISH +	WET SOIL		2	2		K	3			0												
u 1	OF DISH +	DRY SOIL	Ι.	11.5	26		9.	4	T	9	94	_								T			_
₩1	OF MOISTU	RE				l																	•
w1	OF DISH].4	1_		\Box .	4_	\top		4					\Box							
WT	OF DRY SO	11				_1_		_								1							•
w ₃	ISTURE CON	TENT	I2	4	<i>33</i>		25	00		2	£2	9	<u> </u>							\mathbf{I}			_
								0	10)	x		L		10	LIM		0	•	10	71		
_ F	LOW CUI	RVE				•		PLA		- 	-		_										_
						1	:				\neg		I							C	H		_
					H		1		一	十	\dashv		寸		_							7	٤
: -		 			\vdash		++	╂		-+		-	⊣					-			1		_
=							1	\sqcup										L		4			L
20	1					•			1				-		CL			L١		L			
	S	:				:	1:																ſ
<u>5</u> 27					\dashv	÷	 		ᆉ	-	-		+						-	_			r
26	<u> </u>	<u> </u>					 		_	_	_							_		<u> </u>	\sqcup	-	-
25	:	1	A																•	404 (P OI	1	
1	,		7	1	र	,			$\neg 1$			_	\Box										ſ
24					7	4	+		_	///C	<u> </u>			-ML	٠	OL-	_	╁	╁	一			ŀ
23	<u> </u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>بس</u>	لبب	<u> </u>	1111						<u>۸</u>				L		<u></u>	<u></u>	<u> </u>			L
	-	MUMBER 0		Ow		,	40 :	10															
SUMM	ARY		,																		<u>.</u>	61	_
00	DENSITY	UDISTUR CONTENT	-			1017	PLAS	TIC	141	<u>'</u>	1 86) (L	'	• 0 E#	TIFE	CAT	94						_
I T		1			25)		20		J	П)			1 -1	\overline{n}							

Site EP-01-012, Sample at 2.0 feet



- James M. Montgomery P.O. 2942-0130

Site ID	EP-01-012	Wt soil and dish	258.3 244.5
Depth	2 ieet	Dry soll & dish Dish	102.8

Moisture Content = 9.7

SIEVE ANALYSIS

Dry weight of total sample= 141.7

Sieve Size	Weight Retained	Finer	\$ Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	2.54	98.21%	98.2	9.5
# 4	5.77	95.93%	95.9	4.8
# 10	8.66	93.89%	93.9	2.0
# 20	11.64	91.798	91.8	0.85
# 40	14.32	89.89%	89.9	0.43
# 60	17.48	87.66%	87.7	0.25
# 100	24.28	82.87%	82.9	0.15
# 200	48.11	66.05%	66.0	0.075

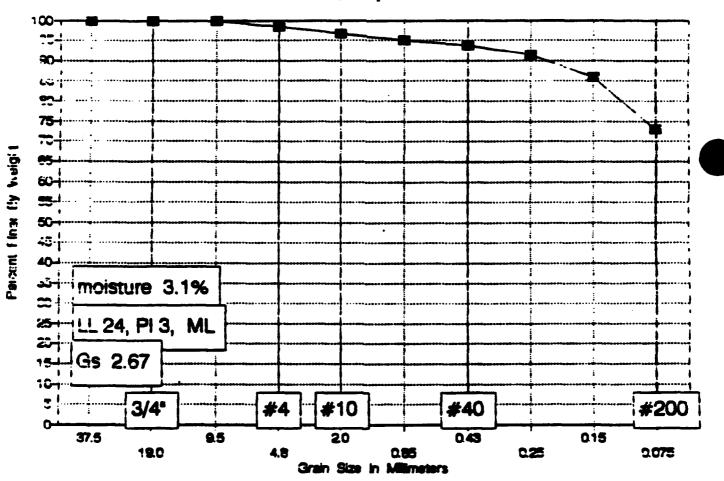
DATE 9/4/92 JOB NUMBER	BY	AF JM Montso	mery	-0
LOCATION BORINGEP-O!	. SAMPLE	012	2'	_
NUMBER OF RINGS	Vacy	DISH	101	7
WT. OF RINGS & WET SOIL WT. OF RINGS WT. OF WET SOIL		WT. OF DISH & WET SOIL WT. OF DISH & DRY SOIL WT. OF MOISTURE	व्यम् इ	,
FIELD DENSITY DRY DENSITY		WT. OF DISH WT. OF DRY SQL	102.6	
•		RELD MOISTURE CONTENT	9.7	1
WASH SIEVE NEV SE		WEIGHT OF OVEN DRY SOL		(come)

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE	ACCUMULATIN	E PERCENT
NUMBER	WEIGHT	NAMER	RETAINED	WEGHT -	REDAKED	ANER
		3"				
		1-1/2"				
•		· 3/4°		0		
		3/6"		2.54		
	·	#4		2.54 5.77		
		PAN		·		
		TOTAL				

				ACCUM	A	ACCUMULATIVE PERCENT					
DISH NUMBER	DISH		WEIGHT	WEGHT	MA	TRAL	TOTAL				
					REINED	ner .	FRER				
		#10		8.66							
		#20		11.64							
		#40		14.32							
		#60		17:48							
		#100		24.28							
		#200		24.28 48.11							
		PAN									
<u>-</u>		TOTAL									

CURVE				PLAI		Y CHA			تا. ا	OL-			LO LO LO LO LO LO LO LO LO LO LO LO LO L		
CURVE				Ť	-		7		P				•		
CURVE				Ť	-		7		g.				•		
CURVE				Ť	-		7		ç				+	*	
CURVE				Ť	-		7		cr				+	*	
CURVE				Ť	-		7		cr				+	*	
CURVE				Ť	-		7						+	*	
URVE				Ť	-		7						c	H	
URVE			++	Ť	-		7					+	6	H	
URVE				Ť	-		7				\Box				
			- ·	Ť	-		7								
ONTENT									- 44)	50		60	7	
ONTENT				_	_		L	. 1 0 1	I D	LIM	1 T				
	20	13	29	30	3).92				\Box					
501 L															
1	1.4	4	<u>].</u>	4-		.4	T			T					
TURE	1								_						
+ DRY SOIL	9.			00		40	1			1				_	
+ WET SOIL	12.			52		.97-	1			十			\neg		
BLOWS	2			19		3	†			十	-		\top		
	AL	त		8	V	गा	+			十			_		
100	T 1				T	3	7			_		5	T		6
T															
CONTENT	10.	49	10.	67	\\X	= 19	I			_					
SOIL											_		_	_	
H	1 12	£ 1].4	4	1		1			十		******	_		
STURE	1		10.		-								•	-	
H + DRY SOIL		92		40	1	**********	+-			-	*****	********	_	-	
H + WET SOIL		.42	6	.20	 		+-			+			+		
T 1 ON	1		25		\vdash		+-			\dashv		-	\dashv		6
	1			2		3						5			
MIT OF LOF															
TV S S AN 1/8-11	NCH THREE	,			J	IELD MO			MTE	+			-+		
	 				-	T OF DE			*****		_		-		
5177	+	-			-} I	T OF D									
SOIL	-	—	_			T OF MO					_		-	_	
G S	+		************		-	T OF D					******				
GS + WET SOIL					-{ }—	T OF DE	SH +	WET	501	+	-		-		
RINGS	+				┥┝	ISH				-+		 -	- [<u>-</u>
					٦ -										2
SITY AT	1 /					80)# I % (7 24	MPLE		ر حے	EPIR	- 4
						LOCAT	104.	Ei.	20			0	12.		
C4*10N						1054	1:/2# //A	M E M				1		<u> </u>	
551	134 FIC±719N Y 87	FICATION	13N FICATION Y 87/_/	FICATION	FICATION	Y 61	FICATION 80	FICATION BORING	60RING E	FICATION BORING ECO.	FICATION BORING EPOL SA	FICATION BORING EPOL SAMPLE	FICATION BORING EPOL SAMPLE O	FICATION BORING EROL SAMPLE OIZ S	FICATION BORING EROL SAMPLE OIZ DEPTH

Site EP-01-017, Sample at 0 to 1 feet



James M. Montgomery F.J. 2942-0130

Site ID	EP-01-017	Wt soil and dish	186.1
_		Dry soil & dish	183.7
nader	0-1 feet	Dish	106.5

Moisture Content = 3.1

SIEVE ANALYSIS

Dry weight of total sample= 77.2

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	1.25	98.38%	98.4	4.8
# 10	2.48	96.79%	96.8	2.0
# 20	3.76	95.13%	95.1	0.85
# 40	4.87	93.69%	93.7	0.43
# 60	6.71	91.31%	91.3	0.25
# 100	10.86	85.93%	85.9	0.15
# 200	20.88	72 958	73 D	0 075

1065

MECHANICAL ANALYSIS

JOB NUMBER	BY	ENT UM MANTE A	mery 0
BORING EP-0;	SAMPLE	<u>017-</u> DEPTH .	0-1'
NUMBER OF RINGS	my	DISH	97
WT. OF RINGS & WET SOIL	(WT, OF DISH & WET SOIL	86.1
WT. OF RINGS		WT. OF DISH & DRY SOL	1.103.7

WASH SIEVE	DRY SEVE	WEIGHT OF OVEN DRY SOL	(grams)

FIELD DENSITY DRY DENSITY WT. OF DISH WT. OF DRY SOL

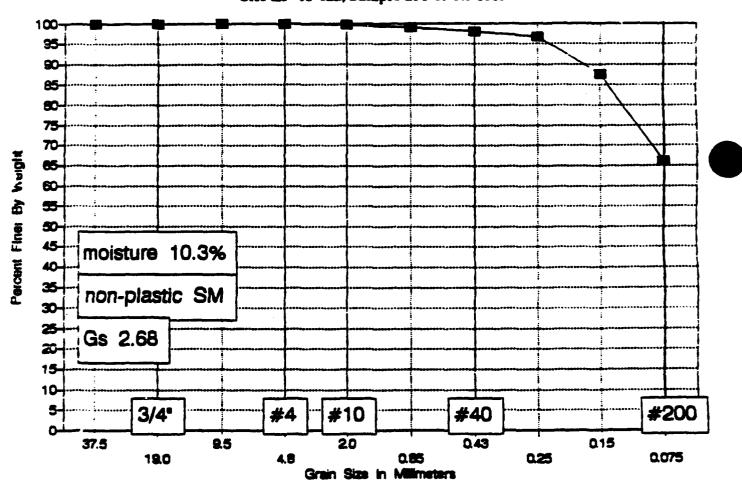
FIELD MOISTURE CONTENT

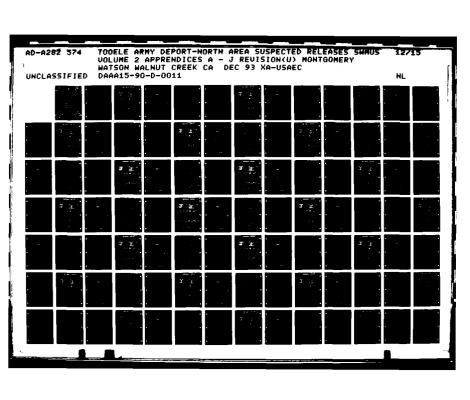
DISH		SEVE	WEGHT	ACCUMULATIVE WEIGHT	ACCUMULATIVE PERCENT		
NUMBER	WEGHT	NUMBER	RETAINED	REPARED	RETAMED	ANER	
		3-					
	·	1-1/2					
•		· 3/4°		,			
		3/8*		0			
		#4		1.25			
		PAN		·			
		TOTAL					

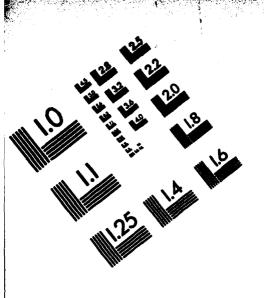
				ACCUM	A	CENT		
DISH NUMBER	DISH DISH NUMBER WEIGHT	SEVE NAMBER	WEIGHT	WEIGHT RETWED	PARTIAL		TOTAL	
				12104	REIMED	PHER.	PNER	
		#10		240		·		
		#20		3.76				
		#40		4.27				
		#60		6.71				
		#100		10.06				
		#200		6.71 10.86 20.86				
		PAN						
		TOTAL				•		

TIERBERG LIMITS TEST O			JOB AT WOOL TOOL NEED TO THE TOTAL TO THE PERSON TO THE				
FREUD CLAISHFICATION			LOCATI	O. 6:			
148094T0PY CL48SIFICATION			80 8	ING 12-1215	IMPLE DIF	_ DEPTH _	
FIELD DENSITY ST	/ /						
DETERMINATION	1	2	DETERMINA	TION	1	2	
NUMBER OF RINGS			DISH			 	
WT OF RINGS + WET SOLE			WT OF DIS	- WET SOIL	 	+	
WT OF RINGS			WT OF DIS	+ DRY SOIL		+	
WT OF WET SOIL			WT OF MOIS	STURE		-	
FIELD DENSITY			WT OF DIS				
DRY DENSITY			WT OF DRY				
	INCH THREAD -			TURE CONTENT		 	
PLASTIC LIMIT BY W	_				l		
PLASTIC LIMIT OF WIL							
DETERMINATION	1	2	3	4	5	6	
DISH	25	ALIOB				<u> </u>	
WT OF DISH + WET SOIL	12.03	13.62		******************************			
WT OF DISH + DRY SOIL	10.22	11.52					
WT OF MOISTURE						<u> </u>	
WT OF DISH	1.4	1.4					
WT OF DRY SOIL						<u> </u>	
MOISTURE CONTENT	20.52	20.75	X=21		<u> </u>	<u> </u>	
LIQUID LIMIT							
DETERMINATION	1	2	3	4	5	6	
DISM	AL131	651	ALIO4				
NUMBER OF BLOWS	30	<i>7</i> 3		-			
WT OF DISH + WET SOIL	0.99	10.79	10.36				
WT OF DISH + DRY SOIL	7.55	892	8.53				
WT OF MOISTURE							
WT OF DISH	1.4	1.4	1.4				
WT OF DRY SOIL							
MOISTURE CONTENT	23.4	24.87	25.6T				
			•		MIT		
			10 20	30 40		7.1	
FLOW CURVE		PLAS	TICITY CHAP	धर			
;						Сн	
	- 		 				
	- - -	: : - 	++++	+++	 	-14	
		+ + +	+		┾╌╄╌┤╱╸╏	4	
				CL	3.4.5		
1 1 1				111		T	
26 25 26	- -		 			- - -	
25		++++	 - - - 		╁╌╁╌┼═┤		
24			 		 ┃ ┃	H & OH	
			CL-ML				
23			KA	ML & OL			
22 7 10 15	.70 25 30	40 50	· · · · · · · · · · · · · · · · · · ·		<u> </u>		
NUMBER (F BLOWS						
SUMMARY			- A. A. VI 214				
DRT DEMS ITT CONTEN		IT PLASTIC LIE			100		
i I	1 24	1 71	3	m	.		

Site EP-01-022, Sample at 5 to 5.5 feet



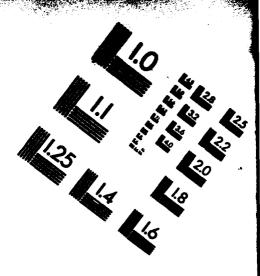






Association for information and image Management

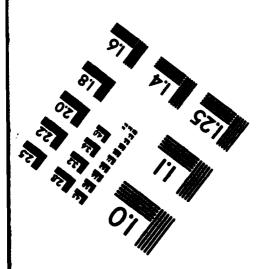
1100 Wayne Avenue, Suite 1100 Silver Spring, Maryland 20910 301/587-8202



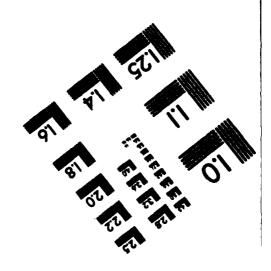
Centimeter



1.1 1.8



MANUFACTURED TO AIIM STANDARDS
BY APPLIED IMAGE, INC.



James M. Montgomery P.O. 2942-0130

Site ID EP-01-022	EP-01-022	Wt soil and dish	230.3
		Dry soil & dish	218.8
Depth	5-5.5 feet	Dish	107.2

Moisture Content = 10.3

SIEVE ANALYSIS

Dry weight of total sample= 111.6

Sieve Size	Weight Retained	Finer	t Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0.3	99.73%	99.7	2.0
# 20	1.2	98.92%	98.9	0.85
# 40	2.1	98.12%	98.1	0.43
# 60	3.6	96.77	96.8	0.25
# 100	13.9	87.54%	87.5	0.15
# 200	37 9	66 135	66 1	0 075

BY LAF	
OWNER/QUENT_JMM0	nteomery
	••
SAMPLE	DEPTH
	BYJMMO SAMPLE

NUMBER OF RINGS	naax	DISH	30b
WT. OF RINGS & WET SOIL	0 4	WT. OF DISH & WET SOIL	230.3
WT. OF RINGS		WT. OF DISH & DRY SOIL	218.8
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY	1	WT. OF DISH]]072
DRY DENSITY	,	WT. OF DRY SOIL	
		FIELD MOISTURE CONTENT	10.3

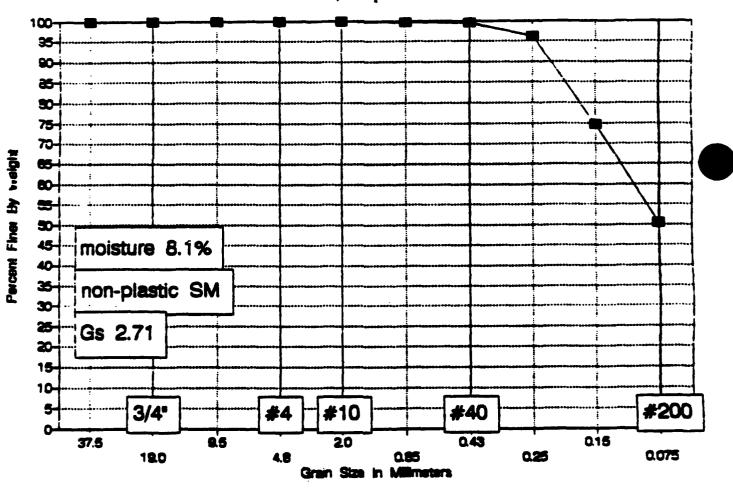
WASH SIEVE ________ DRY SIEVE _______ WEIGHT OF OVEN DRY SOIL ______(grams)

DISH	DISH	SIEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULATE	E PERCENT
NUMBER		NABER	RETAINED	RETAINED	RETANED	FINER
		3°				
	·	1-1/2				
•		· 3/4*				
		3/8*				
		#4		0		
		PAN		·		
		TOTAL				

				ACCUM	A	ACCUMULATIVE PERCENT		
DISH NUMBER	DISH WEIGHT	SEVE NAMBER	WEIGHT	HT WEIGHT PA		ITIAL	TOBL	
				REDNED	RETURNED	FNER	FINER	
		#1 0		.3		·		
		#20		1.2				
		#40		51				
		#80		3.6			-	
		#100		13.9				
		#200		37.8				
						·		
		PAN						
		TOTAL				•		

				- -			6041	vg E	P-(別sai	MPLE		72	- 069	TH 🖁
FIELD DENSITY ST	- • / /	. •								-				•	_
DETERMINATION	1		2	!	7	DETERM	INATI	ON		T		1			2
NUMBER OF RINGS					7	015#									
WT OF RINGS + WET SOIL				<u></u>	7 [WT OF	D15#	- WET	501						
WT OF RINGS						WT OF	DISH	+ DRT	501	L			_		
WT OF WET SOIL]	_				WT OF	MO I 51	URE			. –			-	
FIELD DENSITY	1] [WT OF	DISH						_		
DRY DENSITY] [WT OF	ORT S	01 L							
THIS IS AN 1/6-II						FIELD	40 ST	URE C	ONTE	NT					
PLASTIC LIMIT & LOF	9,149	2 -													
DETERMINATION	N 1	不	2		/	3	$\neg \tau$			\neg		5.		T	6
DISH	ALI	2	Ai		+-		7	11/		$\neg h$	F		17/	00	
WT OF DISH + WET SOIL	7	F	1/4	1	+-		4	747		-4		11	<u> </u>		Ь—
WT OF DISH + DRY SOIL	$\vdash \!$			/	+	·····		*********		-		********		 	
WT OF MOISTURE	🔨	-	\rightarrow	_	-		•	_		.			-	-	
WT OF DISH	1/14	\	Λ	X	+	**********		·		_				1	
WT OF DRY SOIL	1100	-\	تعلنر	7	-		•	_		.	_		-	-	
MOISTURE CONTENT	//	-\		-/	+-		十					_			
	<u> </u>				\									<u> </u>	
LIQUID LIMIT					-K		71								
DETERMINATION	1 2 1		2		Д,	3	4		4			5	<u> </u>	ļ.,	<u>-6</u>
DISH	ALI	14/	XH	<u>99</u>	1 	HLL	4		Ca	4		r	K/ł	0	
NUMBER OF BLOWS	 \ 	/	- +		4	\leftarrow					ΔC		44	ide Jur	<u>-</u>
WT OF DISH + WET SOIL	 \/			/						4			ZZ,	<u>IVI</u>	П
WT OF DISH + DRY SOIL	┤	-	/	7	-	\leftrightarrow	-			.		25	1		
WT OF MOISTURE	1	}	-/-	2 /-	 /	-K-1	. 							ļ	
WT OF DISH	1 /1.4	7	نتكر	<u>4</u> \	1 /-	1.4	· / /	_		.	_		-	-	
MOISTURE CONTENT	/	$-$ \ $+$			₩/		$\overline{}$			-+				┼─	
maistone comitent	<u> </u>		-		V									ــــــــــــــــــــــــــــــــــــــ	-
				0	10	20		L I QI	-	LIM	1 T 50)	60		70
FLOW CURVE	11				STICE	7	HAR		T		Ť	T	T	\neg	T
	- - 	++	++			1 1	十	+-	+		_	十	十	CH	╅
 		++	+	-		╁		+-	┼	╌┤	-+	-	\dashv	- 	+-
		<u> </u>	 	\sqcup		 			_	$\downarrow \downarrow$	_	_	_	٠,	4
		<u>:</u>							<u>L</u> _		1		ام	X	
									CL		\neg	3	汀		T
		+ +	1		十	1-1	十	\top		11		7	十	$\neg \vdash$	十
 		++	+ +	-		+ +	_	+	+-	├─ ╁	4	-+	\dashv	-	+
			<u> </u>					<u>.</u>	<u> </u>	1	_	_	_	\bot	\bot
		;									1		M	H & (H
					7/0	L-MI	7110				\Box				
	- 	+ +	++			_ L - MI		M	L	OL+		寸	ヿ	\top	丁
		1 1 1 1 1 1	. l												

GRADATION CURVE Site EP-01-025, Sample at 6.5 to 7 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-025	Wt soil and dish Dry soil & dish	222.3 213.8
Depth	6.5-7 feet	Dish	109

Moisture Content = 8.1

SIEVE ANALYSIS

Dry weight of total sample= 104.8

Sieve Size	Weight Retained	Finer	& Finer	Sieve opening mm
1.5 inch	6	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0.1	99.90%	99.9	2.0
# 20	0.3	99.71%	99.7	0.85
# 40	0.5	99.52%	99.5	0.43
# 60	4	96.18%	96.2	0.25
# 100	26.5	74.718	74.7	0.15
# 200	52	50.38%	50.4	0.075

54

DATE 9/8/97 JOB NUMBER -608	BY	af on un montour	rely	
LOCATION	SAMPLE		65-7	
NUMBER OF RINGS WT. OF RINGS & WET SOL	kag	DISH WT. OF DISH & WET SOL	214-	
WT. OF RINGS WT. OF WET SOL		WT. OF DISH & DRY SOIL WT. OF MOISTURE	e13.8	
DRY DENSITY		WT. OF DISH WT. OF DRY SOIL FIELD MOISTURE CONTENT	109.0	
WASH SIEVE DRY SE	.VE	WEIGHT OF OVEN DRY SOL	(078	ms)

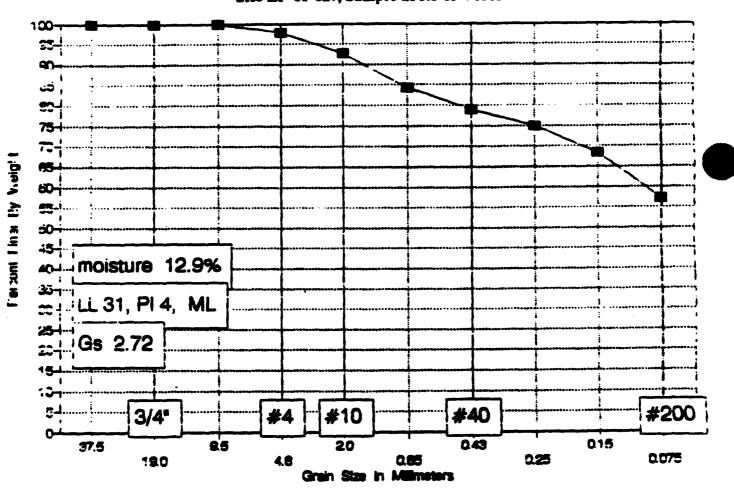
DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULAT	ME PERCENT
NAMBER	WEGHT	MARKER	RETAINED	RETAINED	RETAINED	FNER
		3"				
	·	1-1/2				
٠		· 3/4°				
		3/8*			!	
	·	*		0		
		PAN				
		TOTAL				

			· · ·	ACCUM	A	COMMUNITYE PE	CENT	
OISH NUMBER	WEIGHT	SEVE MAKER	WEIGHT RETMED	WEDNED	PART.	MAL	TORAL	
					REDANCED	FNER	PNER	
		#10		٠١				
		#20		B				
		#40		,5				
		#60		4.0				
		#100						
		#200		26.5 5a.0				
		PAN						
		TOTAL				•		

FIELD DENSITY :	//-	- ·										DEPTH (
DETERMINATION	1		2		30	TERMIN	ATION		T	:	T	2	_
NUMBER OF RINGS					01	SH							_
WT OF RINGS + WET SOIL	1				WT	OF 01	SH - #	ET 501	ı				
WT OF RINGS			**********	*********	1 1	OF 01	SH + 0	RY SOI		**********		*******	-
WT OF WET SOIL		_			1 1	OF MO	ISTURE				_		_
FIELD DENSITY					WT.	0F 01	SH						_
DRY DENSITY					₩7	OF DR	7 501L				_		
THIS IS AN 1/8-1	_				F11	ELD MO	STURE	CONTE	NT				
PLASTIC LIMIT BY	F.9/1197	2.				•							
DETERMINATION	1		2	,		3	T	-		5.	T	6	-
DISH	10	3/1	ALI	201		CI	JUL	CI	107	H	1126	ad	_
WT OF DISH + WET SOIL	11	71	7	7			T	7	ARY	2/1)		_
WT OF DISH + DRY SOIL	17	ZI		\mathcal{I}			7			y	_		_
WT OF MOISTURE			/	\sum_{i}									_
WT OF DISH	1.4	ΓZ	X.	4							_		
WT OF DRY SOIL				$\overline{}$									_
MOISTURE CONTENT	7	W											
LIQUID LIMIT												-	
DETERMINATION	1	У	2				1	4	7.	5		6	_
DISM	TAL	77	VAI.	122	1/25	51/	1	100	מע	no	IF V	21	_
NUMBER OF BLOWS	17	7	7	7	7	7					late		_
WT OF DISH + WET SOIL				/		7		V	albu	JC	OUI	7	_
WT OF DISH + DRY SOIL	$\prod V$		Δ							125	$1 \perp$		_
WT OF MOISTURE	$\perp \triangle$		\mathcal{I}	Σ		\sum_{-}							
WT OF DISH	1.4	A	/14	Δ	1.	4	_				_		_
WT OF DRY SOIL	1/	$-\lambda 1$				-7						_	_
MOISTURE CONTENT	1/	\underline{V}		-	/	\	<u> </u>						
						·	LI	QUID	LIMIT	•			
FLOW CURVE		T:	T:		TICITY	20)O.	7		50	- 60	70	_
	- - 	+	++-	-	++	1	 	+-		++	+		_
			++-	-	++					╀╌┼		SH	7
												LX	_
												1	
			1:			1		CL		1.			
B I	- 	+	+ :	1	+	+-	+ +	-	 	M	+	++	_
 		+ +	+÷	 	+++	+	 		 	4-1	-+-	+	_
	1 T		1:	$\vdash \vdash$	++		$\sqcup \bot$	 _	14	4-4		44	بحن
				a . I	1 1	- 1	1 1		1 1	1 1	MH	a OH	
									<u>ll_</u>				_
				\vdash	7772	<u> </u>		1		+	\neg		
					WEL.	- ML//		ML &	OL		7	\prod	_

ATTERBERG LIMITS TEST DATA

Site EP-01-027, Sample at 3.5 to 4 feet



James M. Montgomery F.O. 2942-0130

Site ID	EP-01-027	Wt soil and dish Dry soil & dish	310.2 287.3
Depth	3.5-4 feet	Dish	109.7

Moisture Content = 12.9

SIEVE ANALYSIS

Dry weight of total sample= 177.6

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	3.76	97.88%	97.9	4.8
# 10	13.05	92.65%	92.7	2.0
* 20	28.13	84.16%	84.2	0.85
# 40	37.42	78.93%	78.9	0.43
# 60	44.52	74.93%	74.9	0.25
# 100	56.27	68.32%	68.3	0.15
* 200	76.06	57.17%	57.2	0.075

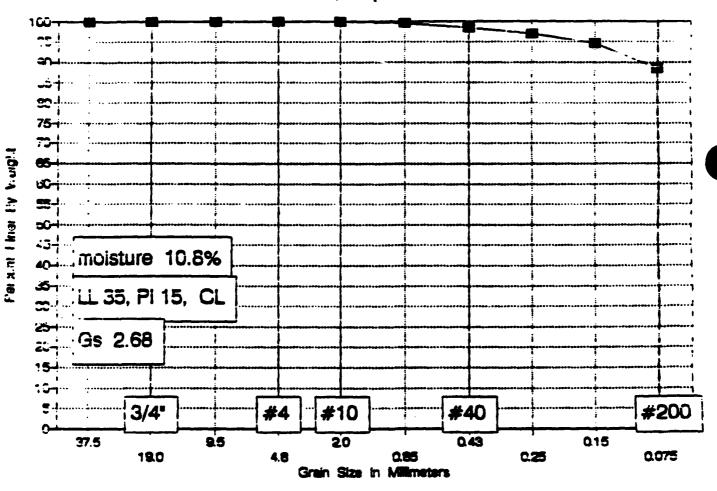
DATE		af nr_um_montzor	mery
BORING EP-01	SAMPLE	027 DEPTH _	35-4
NUMBER OF RINGS	Vaax	DISH	208
WT. OF RINGS & WET SOL		WT. OF DISH & WET SOL	310.2
WT. OF RINGS		WT. OF DISH & DRY SOL	287.3
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	109.7
DRY DENSITY		WT. OF DRY SOIL	
•		FIELD MOISTURE CONTENT	1 29
WASH SIEVE DRY SIE	VE	WEIGHT OF OVEN DRY SOL	(grams)

DISH	DISH	SEVE	WEGHT	ACCUMULATIVE WEIGHT	ACCUMULATI	ME PERCENT
NAMBER	WEIGHT	MARIER	REDNED	RETAINED	RETAINED	FINER
		3"				
	·	1-1/2"				
		· 3/4°				
		3/8*		0		
		#4		376		
		PAN		·		
		TOTAL				

]}	ACCUM	A	ACCUMULATIVE PERCENT					
OISH NUMBER	DISH	SEVE NAMEER	RETAINED	WEIGHT	PAR	TRAL	TOTAL				
				REDUNED	RETAINED	MER	PNER				
		#10		13.05		·					
	·	#20		28.13							
		# 40		37.42							
		#60		44.52	-						
		#100		56.27							
		#200		44.52 56.27 76.06							
		·									
		PAN									
		TOTAL									

TERBERG LIMITS TEST DI Figuriality (1477)			JLIENT/		mont	somer)
			LOCATIO		077=	_ DEPTH 25
FIELD DENSITY ST	//		5041	NG TYTE 2		_ DEPTH Z
OCITAMINATION	1	2	DETERMINAT	ON	1	2
NUMBER OF RINGS			DISH			
WT OF RINGS + WET SOIL			WT OF DISH	+ WET SOIL		1
wT OF RINGS		*******************	WT OF DISH	+ DRY SOIL	**********	
WT OF WET SOIL			WT OF MOIS	TURE		
FIELD DENSITY	 -		WT OF DISH			-
DRY DENSITY			WT OF DRY			
THIS IS AN 1/8-1	NCH THREAD		/ 	TURE CONTENT	*	+
PLASTIC LIMIT BY WE		_				
DETERMINATION	1	2	3	ri .	5,	6
DISH	AU17	AL124	<u> </u>			
WT OF DISH + WET SOIL	13.74	15.32			***************************************	
WT OF DISH + DRY SOIL	11.12	12.4	T			
WT OF MOISTURE		***************************************				
WT OF DISH	1.4	14			-	
WT OF DRY SOIL						
MOISTURE CONTENT	2695	26.43	V=2+			
LIQUID LIMIT			,			
DETERMINATION	1	2	3	4	5	6
DISM	AL93	AL100	651			
NUMBER OF BLOWS	29	21				
WT OF DISH + WET SOIL	0.02	11.96	10.92_			
WT OF DISH + DRY SOIL	9.03	9.46	263			
WT OF MOISTURE						
WT OF DISH	1.4-	1.4	1.4_			
WT OF DRY SOIL						
WOISTURE CONTENT	30.02	31.02	3.67			
		0	10 20	LIQUID LI1	117	0 70
FLOW CURVE		PLAS	TICITY CHAR	τ		
						СН
				+		
			++++		\vdash	
	1 1 1					
				CL	12.15	
				1 1		
 					\mathcal{A}	
32			++++	++-}/		
31	_ 1 1				•	H & OH
			/// AAL 1//			
30 ; ; ;	1 10		CL-ML//	-MA - OL		
29 	111 111 111 111 00°.	40 50	1 1 10-	$V \sqcup \bot$		
NUMBER O		~ 24				
DRY DENSITY WOISTURE	LIQUID LIM	T PLASTIC LI	HIT PLASTICITY	IDENTIFICAT	1 On	
, Com 1 (m)	21	77	- '-ULA	M		

Site EP-01-032, Sample at 5 to 5.5 feet



James M. Montgomery r.O. 2942-0130

Site ID	EP-01-032	Wt soil and dish Dry soil & dish	253.8 239.6
Depta.	5-5.5 feet	Dish	108.2

Moisture Content = 10.8

SIEVE ANALYSIS

Dry weight of total sample= 131.4

Sieve Size	Weight Retained	Finer	t Finér	Sleve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0.1	99.92%	99.9	2.0
# 20	0.7	99.47%	99.5	0.85
# 40	2	98.48%	98.5	0.43
# 60	4.1	96.88%	96.9	0.25
# 100	6.9	94.75%	94.7	0.15
# 200	15.1	88.514	88.5	0.075

DATE 9/3/92	BY AF	
JOB NUMBER	OWNER/CLIENT UM M	ioniconnery
LOCATION		,
BORING EP-01	SAMPLE	DEPTH <u>5-5.5'</u>

NUMBER OF RINGS	max	DISH	215
WT. OF RINGS & WET SOL		WT. OF DISH & WET SOL	253.6
WT. OF RINGS		WT. OF DISH & DRY SOL	239.6
WT. OF WET SOL		WT. OF MOISTURE]
FIELD DENSITY		WT. OF DISH	1002
DRY DENSITY		WT. OF DRY SOIL	
<u> </u>		FIELD MOISTURE CONTENT	103

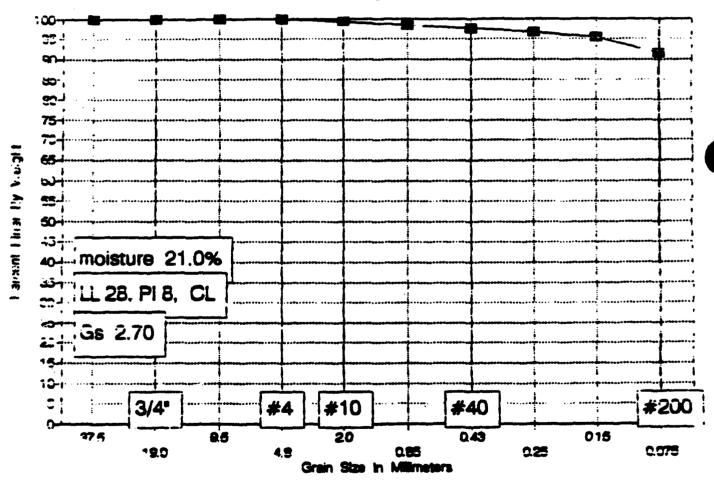
WASH SIEVE ______ DRY SIEVE _____ WEIGHT OF OVEN DRY SOIL _____(grams)

DISH	· DISH	SEVE	WEGHT	ACCUMULATIVE WEIGHT	ACCUMULATIVE PERCENT			
NUMBER	WEGHT	NUMBER	RETAKED	RETANED	RETANED	PNER		
		3.			·			
	·	1-1/2"						
•		· 3/4°						
		3/8*						
		#4		0				
		PAN		·				
		TOTAL						

				ACCUM	A	CUMULATIVE PER	PERCENT		
DISH NUMBER	DISH	SEVE NAMBER	WEIGHT	WEIGHT	MAR	TAL	TOTAL		
				12114	REDNED	PHER	FNER		
		#10		0.1		·			
	·	#20		Q.7					
		#40		2.0					
		#6 0		4.1					
		#100		6.9			,		
		#200		15.1					
		PAN							
		TOTAL							

LL SUASSIFICATION	-								LO									50r		
GEATORY CLASSIFICA							•			ROS	ING	旦	?-0) s4	MPL	£ _(192	2_ 0:	EPTH	5
DETERMINATION	'		1			2	_			MINA	T 101		**							<u>.</u>
NUMBER OF RINGS				\dashv		-	\dashv) ISH					\dashv				+-		<u>-</u>
WT OF RINGS + WET	5011			┰┼			_	_ }_		015	* -	#61	SAL	-+				-}- -		
WT OF RINGS	3011		******		•••••	*******		-	*******	015								+		
WT OF WET SOIL				.	_		-			MO1					-		_	-	_	
FIELD DENSITY .				\dashv						DIS				+				+		
DRY DENSITY				\dashv			\dashv]	******	DRY		L			_			ł	_	
THE IS AN	1/8-IN	CH THRE	AD -					-		MOI			MTEI	, +				+-		
LASTIC LIMIT OF				•				_						1				<u></u>		
DETERMINATION			1			2		.= .	3			- 1				<u> </u>		T		5
DISH		AL	120	2]	AL	10	0													
WT OF DISH + WET	SOIL		.52).5														
WT OF DISH + DRY	SOIL	-	1.16		16	2.51		_						1	_		_			
WT OF MOISTURE										-	L.									
WT OF DISH		ىل	4_			4	.]			-] .				_		_			
WT OF DRY SOIL				\perp																
MOISTURE CONTENT		9.	<u>86</u>		_E	185	2	X	-2	<u>0</u>										
IQUID LIMIT								_												
DETERMINATION			1			2			3			- 1	1			5				
DISH		AL	132	2	AL	12	9	AL	12	5										
NUMBER OF BLOWS			2		_	2			13											
WT OF DISH + WET	SOIL	11.	26	2		96	*****	1	1.6	0	<u> </u>									
WT OF DISH + DRY	SOIL	8	32	.	2	.34	-	Ţ	1.0	Q	Ι.			-	_		_	╽.		
WT OF MOISTURE						·····					 			_						
WT OF DISH		ــــاـ	4		_	4	-	_	.4	_	١.			.	_		_	1		
WT OF DRY SOIL			-				_	- 0		_	-			-4			—	+-		
MOISTURE CONTENT		24.	+0		2	06	<u> </u>	3	01	3	<u> </u>									
						•		10	2	0			10	LIM	1 T 5	0	_	0	70	<u></u>
FLOW CURVE				Li	1		A5	ricn	Υ (SHA	RT								4	
	,			Ŀ														C	•	
	-				T														1	
		1			T		1											T	7	
	$\overline{\overline{}}$	_	 	\vdash	+-		╁	+	-			_	CL			H				
	<u> </u>		╂	 	+	4	+	┼—					1		_		_			
			ļ.,				\bot	<u> </u>										\sqcup	_	
;	(\mathcal{U}																		
	!	1	1				T					7						444	0	
	 -	_	K		+		T						\vdash					\Box	1	
 		+-	\vdash	7	_	:+-	+-	///	L-N			-MI		OL-	 	-	-	$\vdash\vdash$		
5 7 40	444	سيس	بىل	سا	严	بل		<u> </u>	L	_			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>			
5 7 10	15		25 J S	•	40	50														

GRADATION CURVE Site EP-01-037, Sample at 6.5 to 7 feet



James M. Montgomery P.J. 2942-0130

Site ID	EP-01-037	Wt soil and dish	286.1
Depth	6.5-7 feet	Dry soil & dish Dish	255.4 109.1

Moisture Content = 21.0

SIEVE ANALYSIS

Dry weight of total sample= 146.3

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	. 0	100.00%	100.0	9.5
# 4	0.2	99.86%	99.9	4.8
# 10	1	99.32%	99.3	2.0
# 20	2.4	98.36%	98.4	0.85
# 40	3.5	97.618	97.6	0.43
# 60	4.8	96.72%	96.7	0.25
# 100	6.8	95.35%	95.4	0.15
# 200	12.5	91 468	91.5	0.075

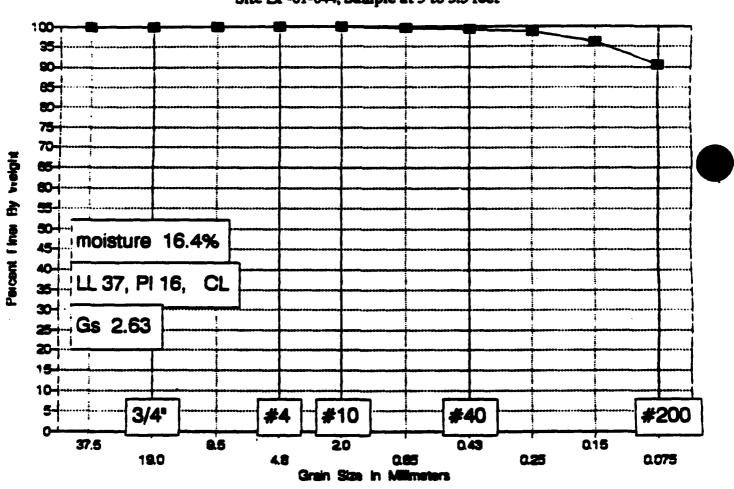
DATE <u>9/14/92</u> JOB NUMBER <u>-6061</u> LOCATION		af W JMMONTSO	mery
BORING EP-01	SAMPLE	<u>037</u> □ DEPTH _	6.5-7'
NUMBER OF RINGS	20	DISH	214
WT. OF RINGS & WET SOIL	U	WT. OF DISH & WET SOIL	266.
WT. OF RINGS	/	WT. OF DISH & DRY SOL	255.4
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	[09.]
DRY DENSITY	/	WT. OF DRY SOL	
		FIELD MOISTURE CONTENT	21.0
WASH SIEVE DRY SIEV	Æ	WEIGHT OF OVEN DRY SOIL .	(grams)

DISH	DISH	SEVE	WEGHT	ACCUMULATIVE WEIGHT	ACCUMULAT	NE PERCENT
NUMBER	WEGHT	NAMER	RETAKED	RETAINED	RETANED	PHER .
		3*				
		1-1/2"				
		· 3/4°				
		3/8-		0		
		#4		.2		
		PAN				
		TOTAL				

				ACCUM.	A	COMPLETIVE PEN	CENT
DISH	DIBH WEIGHT	SEVE NAMER	MEGHT RETMED	WEIGHT	PAGE	TRAL	TOTAL
				-	RETWED	MER	PHOEN.
		#10		1-0		,	
		#20		2.4			
		#40		3.5			
		#60		4.8			
		#100		6.8			
		#200		12-5			
		PAN					
		TOTAL					

SELU CLASSIFICATION					•			CATI	ON							176	
48094TOFY (14884F)(47:0N								809	RING	E	2-() s	AMPL	E (3	= :	EPT
FIELD DENSITY ST	/ /									•		_		_		•	
METERMINATION	1			2			26766	1M I M A	TION	-				1			
NUMBER OF RINGS					\neg) 15 H			-						\top	
WT OF RINGS + WET SOIL					╗	Ī	10 11	015	H +	WET	\$01	L				十	
WT OF RINGS	**********		********	*******		7	T 01	015	H +	OR T	501	ı					
MT OF WET SOIL		_			•		T Q	MQ1	STUR	E			-				
FIELD DENSITY							T 01	015	H								
DRY DENSITY						-	17 01	DRY	501	L							
THIS IS AN 1/8-IN							I E LO	#01	STUR	E C	3 T MC	NT					
PLASTIC LIMIT & LAF.	9,169	_ '															
DET ERMINATION	1			2		<u> </u>	3		1					5		η-	
DISM	ALI	2	M	104	_+		<u> </u>		一		-					+	
WT OF DISH + WET SOIL	10.16			246	_				 -			 				+	
WT OF DISH + DRY SOIL	15.3			.56				*******	†			-				十	
WT OF MOISTURE	17.7	_		. , ,	•	-		-	'		_	-	_		_		
WT OF DISH	1.4			.4		*******			1		*******	_	*****	******		+-	
WT OF DRY SOIL		-			.	-		-	'			٠	-	_			_
MOISTURE CONTENT	20.0	6	2	06	7	⊽	=7	O	\vdash			7				+	
LIQUID LIMIT				_							- "						
DETERMINATION	1			2			3		_	-				5			
DISH	AL	7 2	Δ.	1	근	Λι	<u>,</u> _]]	<u>a</u>	┼							┿	
NUMBER OF BLOWS	3			21	\Box	7	<u>-1 1</u>	2_	-							┿	
WT OF DISH + WET SOIL	10.7	성 	10	98	<u>,</u>	┰	Ok		┢╌							+	_
WT OF DISH + DRY SOIL	6.7			.96	-		00		┼─			-		-		+	
WT OF MOISTURE	-0.1.	-	L	<u> </u>	1	L	,.C.	2	-			٠	-		_	1	_
WT OF DISH	IΔ		7	4			.4	·	 			-				╅	
WT OF DRY SOIL		-]		<u> </u>	.	_	• 7	_	-			.	_		_		_
MOISTURE CONTENT	27-4	40	75	20	Ŧ	21	70)[\vdash			\neg				十	
	<u>ا سامد کا اگریت د</u>								<u> </u>								
			٠	0		10	2)). 30			L 11 10		10	(50	1
FLOW CURVE				PL	AS	rien	Y	SHA	RT								
:	T															C	Н
	11	十		_	T^{-}	\vdash			\dashv			1			T	П	
		+-		4_	+-	┼-	\vdash		-		-	├	-	├-	+-		1
 					1	1						 -	!	 	ا ره		_
<u>'</u>		1		Ц_							CL	_			Z	_	L
				•		1											
9	7 7			7	T					_			P	Π	П	П	
3	4	╁			\dagger	t	\vdash	$\vdash \vdash$	-]		1	 	\vdash	十	1	MM (
é	- 0 +	+	-	_	+-	+-	-	$\vdash \downarrow$	4	\		┼	-	+-	┼-	+	
<u> </u>		杯		4_	↓_	1116	L-N			۷,	l •	OL:	 	!	 	↓_	_
		نىل						1				Ĺ					
26 7 10 15 NUMBER OF		30	40	50													
	43																

Site EP-01-044, Sample at 5 to 5.5 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-044		Wt soil and dish	248.7
Depth	5-5.5 feet		Dry soil & dish Dish	229.3 110.7
Majeture	Content =	16.4	•	•

SIEVE ANALYSIS

Dry weight of total sample= 118.6

Sieve Size	Weight Retained	Finer	& Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0.2	99.83%	99.8	2.0
# 20	0.5	99.58%	99.6	0.85
# 40	0.8	99.33%	99.3	0.43
# 60	1.6	98.65%	98.7	0.25
# 100	4.5	96.21%	96.2	0.15
# 200	11.1	90.64%	90.6	0.075

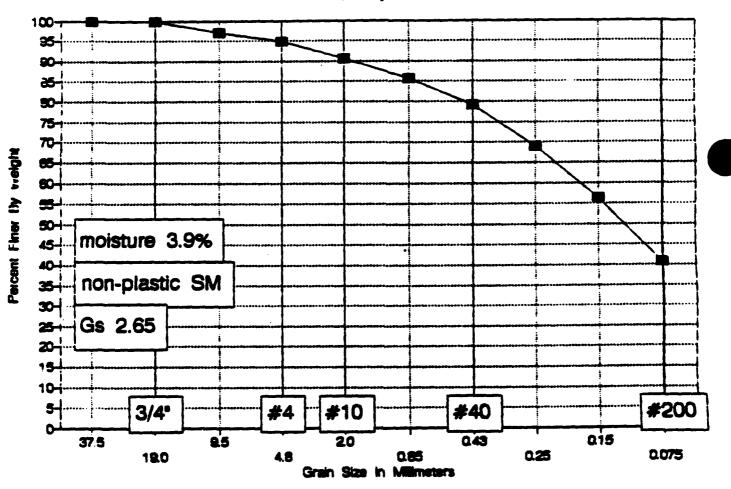
DATE 9/6/72 JOB NUMBER -606/	BY	af an Jmmantson	nery
LOCATION BORINGEP-01	, SAMPLE	044 регтн _	<u>5-55'</u>
NUMBER OF RINGS WT. OF RINGS & WET SOL	Yaq	WT. OF DISH & WET SOL	705 246 +
WT. OF RINGS WT. OF WET SOL		WT. OF DISH & DRY SOL. WT. OF MOISTURE	.eaq.3
PELD DENSITY DRY DENSITY	/	WT. OF DRY SOL	:110. 1
		FELD MOISTURE CONTENT	1 64

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULATI	ME PERCENT
NAGER	WEGHT	MAGER	RETUNED	RETANED	RETANED	PNER .
		3*				
	·	1-1/2				
•		· 3/4°				
		3/6"				
	·	#4		0		
		PAN		·		
		TOTAL				

			ii ii	ACCUM	A	COMPLETIVE PER	79 (7
DISH NUMBER	WEIGHT	SEVE NAMEER	MEDINED	WEIGHT	PAR	TRAL	TOBL
	L			75.70	RETAINED	rver .	PNER
		#10		.2		•	
		#20		.5			
		#40		1B			
		#60		1.6			
		#100		4.5			
		#200		11.1			
		PAN					
		TOTAL					

-	G LIMITS .4501F1C41			.		 -	. . .				:-	EEN'	7/0≠	NER			1	M	10	7	19	20	
) 										- 3	ÇAT	10N _	<u>.</u>	7	7] s4			7/	7			
	DENSIT				_							50	RING		باليسل	<u>/</u> 54	MPL	E <u>)</u> ,	<u> </u>	=======================================	EPTI	'	<u>-</u> -
06	CITARINATI	*	\neg		 !	T	_	2	7		ETE	7 4 1 M A	AT 101			T				$\overline{}$		2	_
	MBER OF RI		\dashv			+			\dashv	-	ISH									+		<u>-</u>	_
_	OF RINGS					\dashv			-	-		F D 1 5	SH +	WET	501	\vdash				+			_
	OF RINGS		-	*******			************	·····	-								****	*******		╁			
• •	OF WET SO					•	_	_		-	T 0	HO:	STU	RE	•••••		-		_	ŀ	_		-
—	ELD DENSIT					+			\dashv			01:											
-	T DENSITY		_			\dashv			┥				501	L			-	_	_		_		-
	THIS	15 AN 1/8	- INCH	THRE	AD -					_			STUR		DATE	17		_		+		 	_
PLAS	TIC LIMIT	T 87 U.	F.O		12					_							•	<u> </u>			•		_
DΕ	CITARIMATIO	N		1				?			3				u.			5.		T		6	_
DI	3 M			Æ	6		10	2								\Box				Ι			
WT	OF DISH +	WET SOL		12	244	1-1	13.	39								\Box							_
WT	OF 015H +	DRY SOL		11.	36	2	1	<u>30</u>	T							Ţ				T			_
WT	OF MOISTU	RE		······································	,		***************************************						<u> </u>							\perp			_
WT	OF DISH]	1	4	.	1.	4		-		_				. T			_	1			-
ΨT	OF DRY SO	11					·		\perp														
= 0	STURE CON	TENT		20	\mathscr{L}	2	21	<u>.11</u>	Ш.	X:		21								\perp			
LIQUI	D LIMIT																						
DET	ERMINATIO	•		1				<u> </u>			3				K .			5				6	
013				AL	92	2		吐				0											
HUI	BER OF BL	OWS			21_			20			12	7	L										
#T	OF DISH +	WET SOIL			41		12	50										-					
97	OF DISH +	DRT SOIL		3	翌	ול	9.	51		2	.0	4	١.				_		_		_		
w1	OF MOISTU	RE			····			. 	\perp		y.		<u> </u>										
	OF DISH			4	4_	-	4	4_		4	<u>.4</u>	_	١.			.	_						_
	OF DRY SOI				7	_	7 X		\perp	-		_	<u> </u>			_				_			_
нон	STURE CONT	TENT	:	35	.04	-1	<u>37</u>	<u>.6</u>	Щ	30	1.3	B	<u> </u>							ــــــــــــــــــــــــــــــــــــــ			_
								_		_	_	_				LIM		_	_	_	_	_	
FL	ow cur	RVE	,	Ī	_		T	PL	ST	CIT	× 2	$\overline{}$	ET.			•					,		
	•		-	-	┝	-	++	+											Н		\vdash		_
 		<u> </u>	<u> </u>		<u> </u>	+	 +		_											U	×		4
	1				<u> </u>	<u> </u>	1																L
20			! !		L	;	:]		_				ĺ
	1	B	,			1	1								CL			,					Γ
	•				<u> </u>	+	++		ᅥ			_			 					\vdash			_
36	+		, \	 	 		┼÷	╂─┤	\dashv				Н				/	-		├-			H
27-	<u> </u>	[<u>\forall \text{\forall } \equiv \forall</u>	K-	<u> </u>	<u> </u>	1							_	[·,	M				<u> </u>		Щ	L
32 33 36	•		! !			:	:												•	MH (0	H	Ĺ
20					1	\mathcal{O}_{-}	T			///C			111										ſ
35	:			, ,			ヤ				F- 14			-MI	•	OL-						Γ	Γ
34,		0 1:	5 3		25 J		40	50					·					-		<u> </u>		•	-
SUMM			0		-																		
Det	DEMS ITY	#31571 57MC3	unt	1.104	110	LIBIT	PLA	STIC	Limi	,	LAS	1161	Ť	105	716	CATI	اس		-				
		5,397 (7			71		4-		OE2											_

GRADATION CURVE Site EP-01-049, Sample at 0 to 1 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-049	Wt soil and dish Dry soil & dish	216.7 212.6
Depth	0-1 feet	Dish	107.9

Moisture Content = 3.9

SIEVE ANALYSIS

Dry weight of total sample= 104.7

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.004	100.0	19.0
3/8 inch	3	97.13%	97.1	9.5
# 4	5.3	94.948	94.9	4.8
# 10	9.8	90.64%	90.6	2.0
# 20	14.9	85.77%	85.8	0.85
# 40	21.7	79.27%	79.3	0.43
# 60	32.5	68.96%	69.0	0.25
# 100	45.8	56.26%	56.3	0.15
# 200	62 1	40 698	40.7	0.075

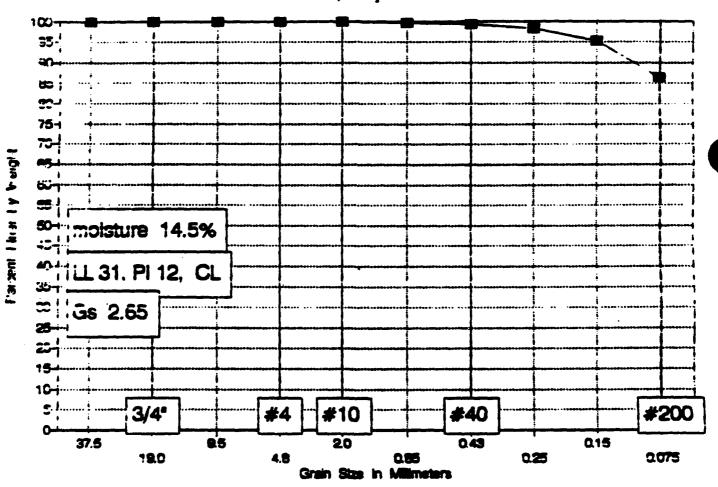
LOCATION			•
BORINGEP-01	SAMPLE	049 регтн _	0-11
NUMBER OF RINGS	coor	DISH	307
WT. OF RINGS & WET SOIL		WT. OF DISH & WET SOL	216.7
WT. OF RINGS WT. OF WET SOL	/	WT. OF DISH & DRY SOIL WT. OF MOISTURE	212.6.
FIELD DENSITY		WT. OF DISH	[079]
DRY DENSITY		WT. OF DRY SOL	
•		FIELD MOISTURE CONTENT	3.9

DISH	DISH	SEVE	WEIGHT	ACCUMALATIVE WEIGHT	ACCUMULATE	VE PENCENT
MARKER	WEGHT	NAMER	RETAINED	RETAINED	RETAINED	ANER
		3"				
		1-1/2*				
•		· 3/4°		0		
		3/8*		30		
	•	#4		53		
		PAN		·		
		TOTAL				

				ACCUM	A	CUMULATIVE PER	ZENT		
DISH NUMBER		SEVE NAMER	WEIGHT	WEGHT	PAR	TIAL	TOBAL		
			RETWED	REDWIED	MER	ANER			
	·	#10		9.8		·			
		#20		4.9					
		#40		21.7					
		#60		32.5					
		#100		45,8					
		#200		62.1					
						·			
		PAN							
		TOTAL							

	BERG LIMITS							C.F. 10	8 45 1 E N 1	:. <u> </u>	NER_	از ال	20 20 20 20 20 20 20 20 20 20 20 20 20 2		70	o i	100	כמ	OR
	U 004001FH047								CATI	ON									
: ÷ ÷ :	PATORY ILASS:	F [4710N]							BO	RING		<u> 20</u>	l sa	MPL E	_Q	49	DEF	TH _	<i>Q</i>
FI	ELD DENSIT	Y = 1	//	- - ·									-			_ •			
	CITAMINATIO	•	1			2] [DETER	M I N A	T 101					1			2	
	NUMBER OF RI	NGS] [015#				_							
	WT OF RINGS	PET SOIL					1 [WT OF	015	H +	WET	501 L				_			
	WT OF RINGS							WT OF	015	H +	DRY	3016							
	WT OF WET SO	11	-					WT OF	MO 1	STU	I E					_	-		_
	FIELD DENSITY						1 1	WT 0F	015	S H			7	~~~					,
	DRY DENSITY							WT OF	ORY	501	L		_			_	-		
,	THIS !	5 AN 1/8-INC	H THRE	10				FIELD	MOI	STUR	E CO	NTEN	7						
-	ASTIC LIMIT	· » LAF	0,99	12_						•			•						
							, 			-			_	_			,		
	DETERMINATION	<u>'</u>	\ 	A	10	$\frac{2}{2}$	}	3	Λ Λ	<u> </u>				- t-	5	24.6	 	6	
	DISH		712	2 / +	72	- 		(W	46	2_	7 [[4	_1	11/2		1.1		
	WT OF DISH +			-/		<i>f</i>	ļ	**********		-	••••••		 -	•••••			 		
	WT OF DISH +	*************	\rightarrow	$\leftarrow \bot$	\rightarrow	←	-		-	.						-	-		_
	WT OF MOISTUR		/-	/		<u> </u>	 			 	******		-+-			*****	 		
	WT OF DISH	***************************************	<u> </u>	# 1	ئمار	47	-		_	.		_		_		-	-		_
	WT OF DRY SO		/ -	$-\lambda$	<i>-</i>	-	├—		_	╄			+	_					
	MOISTURE CONT	TENT L				<u></u>	<u> </u>										<u> </u>		
LI	DUID LIMIT						_												
	DETERMINATION		1	/ \		2 /	·.	3		1	4				5			6	
- 1	DISH		AL	109	118	3/	1	9A	.7		0	\mathcal{O}	u	Y	101	- 6	et	_	
	NUMBER OF BLO	DWS	7	1	1	1	1		i						100				
1	WT OF DISH +	WET SOIL	1	7	1	7		7									n		
ļ	WT OF DISH +	DRY SOIL	X		X	 		λ		†***					75)			-
ı	WT OF MOISTUR	E	7	abla	7	$\overline{}$	-	$/ \setminus$	_	1			ł	-		_	-		_
	WT OF DISH		1.4	4	/1.	4	7	1.4	<u> </u>			*********	1						
ľ	WT OF DRY SOI	L		7	/	_	 /-	-	7	1 '		_	-			-	-		
Ī	MOISTURE CONT	ENT	/			1	7		7	1									
•																			
						0	10	<u> </u>			I QU	40	_	20		60		70	
	FLOW CUP	RVE			<u> </u>	PLAS	Tic	ITY C	CHA	RT							\perp		\perp
	;	;		;	:			1 1	i			- 1			_		CH	╛	
		•										\neg		\Box				/	op
			+	+	++	 	+	╅┪				\dashv		+	\dashv	\dashv		4	+
			+	├─ ┼	 	+	+	+							<u> </u>	الم	4	+	+-
		· · · · · · · · · · · · · · · · · · ·		1	1:							CL			_;;				\bot
1					1:							T		J					
,			$\neg \neg$		1:		\top					_	7	1	7	1	一		十
:		<u> </u>	+	 	++	┼┼	┿	+				\rightarrow	4	┪	-+	 		 	+
					 +	1	4-	4-4				\triangleleft	_	_	_	- 	H &		┿
l	•						7//	CL-N	1//	///	1]						
ſ		111111			.] :			T				- 1	OL†	\neg	T		T	T	
3	="	0 15	.70 2	3 30		50			· ·						<u></u>				
-		NUMBER OF	BLOMS	5															
\$ U	MMARY		_,	**********										-					
1	DAT DENSITY	WOISTURE THETWOOD	LION	10 LIEI1	PLA	STIC II	m: 7	PLAS	1151	f T	DEN	1 6 6 6	CATI	أسه					

Site EP-01-050, Sample at 4.5 to 5 feet



.ames M. Montgomery r.C. 2942-0130

Site ID	EP-01-050	Wt soil and dish Dry soil & dish	229.4 214
ûert n	4.5-5 feet	Dish	107.7

Moisture Content = 14.5

SIEVE ANALYSIS

Dry weight of total sample= 106.3

Sieve Size	Weight Retained	Finer	t Piner	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	Ó	100.00%	100.0	19.0
3/8 inch	Ö	100.00\$	100.0	9.5
# 4	Ŏ	100.00%	100.0	4.8
# 10	0.05	99.95%	100.0	2.0
# 20	0.2	99.81%	99.8	0.85
# 40	0.6	99.448	99.4	0.43
# 60	1.8	98.31%	98.3	0.25
	5.1	95.20%	95.2	0.15
# 100	14.3	86.55%	86.5	0.075

DATE 9/14/92	BY LOF	
JOB NUMBER 606	OWNER/CLENT UM M	nont 60 mery
LOCATION		
BORNG EP-01	SAMPLE	DEPTH _45-51

NUMBER OF RINGS	DOCY	DISH	308
WT. OF RINGS & WET SOL	U	WT. OF DISH & WET SOIL	229,4
WT. OF RINGS		WT. OF DISH & DRY SOL	214.0
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	107.7
DRY DENSITY		WT. OF DRY SOIL	
		FIELD MOISTURE CONTENT	4.5

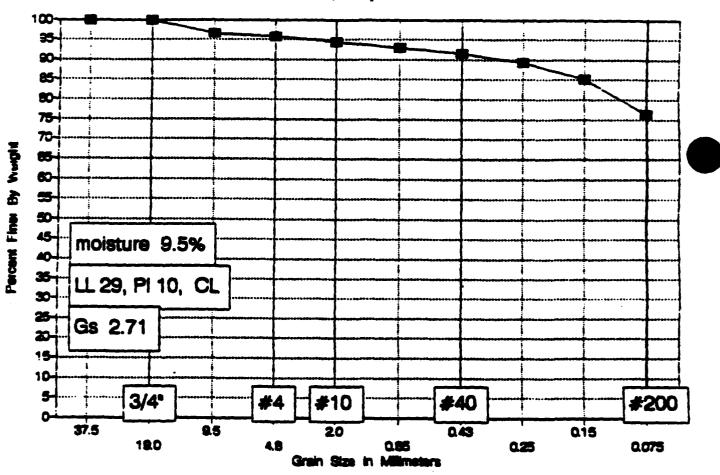
WASH SEVE	DRY SEVE	WEIGHT OF OVEN DRY SOIL	(grams)
-----------	----------	-------------------------	---------

DISH	DISH	DISH SEVE		ACCUMULATIVE WEIGHT	ACCUMULATI	VE PERCENT
MARKER	BER WEIGHT HANGE	HANGER REDAKED A	REPANED	RETAINED	rwer.	
		3				
		1-1/2				
•		. 314				
		3/6				
		#4		D		
	·	PAN		·		
		TOTAL				

				ACCUM.		COMMUNITYE PERC	ZENT
DISH NUMBER	OISH WEGHT	SEVE NUMBER	WEGHT	WEENED	PAR	THAL	TOTAL
			121142	RETAINED	ner .	A COR	
		#10		-05		·	
		#20		.2			
		#40		4			
		#60		1.8			
		#100		5-1			
		#200		14.3			
		PAN					
		TOTAL				•	

FIELD CLASSIFICATI	³ \								2 + 2 0	LOW								_
L=8094TOFY CL=\$51F	1047-04							-	E0	RING	[]	2-0	7 <u> </u> s/	AMPL	E !	7	Ž :E	PTH
FIELD DENSITY	· ••	//	/ - _·								₩		•			~~~	•	
AC I TANI MRSTSO			1		2	?	7 [0616	AM IN	AT ION	,	-	1		1		T	
NUMBER OF RING	5] [DISH									T	
WT OF RINGS +	WET SOIL] [wT 3	F DI	S# +	WET	\$01						
WT OF RINGS								wT 0	F DI:	SH +	DRT	201						
WT OF WET SOLE								wT 0	F MO	ISTUR	E						_L_`	
FIELD DENSITY				\prod_{-}] []	WT 0	F 01:	SN								
DRY DENSITY			_] [wT 0	F DR	7 501	L							
THIS IS	AN 1/8-IN	H THRE	AD —					FIEL	0 =0	STUR	E CC	MTE	HT					
PLASTIC LIMIT	or 45.	9100	12															
DETERMINATION			ı	\top	2	?	T	3		7					5		T	
DISH		AL	110		AL.	90	1				-						1	
WT OF DISH + W	ET SOIL		23			16	I			T							Т	
WT OF 015H + 0	RY SOIL		96	5		.15				7							T	
WT OF MOISTURE										1								
WT OF DISH		工	4		1.4	<u>£</u>							T					
WT OF DRY SOIL																		
MOISTURE CONTE	NT	18.	36		18.	78	P	VU=	(9									
LIQUID LIMIT							_					-						
DETERMINATION		1			2		T	3		T	-		T		5		1	
015H		AL	12	21	A-	6		2	Ī.								\mathbf{I}_{-}	
NUMBER OF BLOW	S	25	3		18	3		12									\mathbf{I}_{-}	
WT OF DISH + W	ET SOIL		03		11.	21		Ō.										ندسوره
WT OF DISH + D	RY SOIL	<u>9.</u>	<u> 39</u>	1	9.	<u>o</u>	'	8.	36	١.				_		_	1.	
WT OF MOISTURE			-y			<u>,</u>		·		<u> </u>			_				1	
WT OF DISH			<u>4</u>		4.	<u>4</u>	_	1.4	_	.			.	_			-	
WT OF DRY SOIL			~7	+	~~	45	 _	_	Δ1	╀			-				╀—	_
STWO SAUTEICH	MT	30).5	7.1.	33	.63		3.	91	<u> </u>							<u></u>	
						0	10		20	L			LIM	11 T #	3	•	,	70
FLOW CURY	/E						STICE	1	7	7							. [T
	:	1	П	-	1		7			\Box							CH	丁
			 	-	 	† †	+	+	1	$\vdash \vdash$			Н	$\vdash \vdash$		1	1	7
			╂╾┨	-	┼	 	+	╀	┼-	┤┤				┝╌┤		-		4
34	\rightarrow				 			-	_	\sqcup							4	4
33	<u> </u>	علد										CL	L		•	Z		
''' 1 1 1	-	V		•													T	T
32	•	1	 		;		1	\top		\Box						\Box	T	寸
32		+-`	0	+	+	1-1	+	+	\vdash	 	$ \overline{}$		4	$\vdash \vdash$	\vdash		- ↓	
42			鬥	4	 ; -	1-1-		+-	┼-	14			 	\vdash		;	_	-
27					Ļ		7/1	cL-I	ML//			L	 OL-			Ш		\Box
, , ,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Lill	1				1									
5 7 10	15	.70	25 30)	•0	50												
SUMMARY	UMBER OF	PLOM	3															

Site EP-01-052, Sample at 2.5 to 3 feet



James M. Montgomery P.O. 2942-0130

Site ID EP-01-052

Wt soil and dish 257
Dry soil & dish 244.2
Dish 110.1

Depth 2.5-3 feet.

Moisture Content = 9.5

SIEVE ANALYSIS

Dry weight of total samples 134.1

Sieve Size	Weight Retained	Piner	4 Finer	Sieve opening mm
1.5 inch	0	100.00\$	100.0	37.5
3/4 inch	Ō	100.00%	100.0	19.0
3/8 inch	4.7	96.50%	96.5	9.5
‡ 4	5.7	95.75%	95.7	4.8
# 10	7.7	94.26%	94.3	2.0
* 20	9.5	92.92%	92.9	0.85
# 40	11.5	91.42%	91.4	0.43
# 60	14.3	89.34%	89.3	0.25
# 100	20	85.094	85.1	0.15
# 100 # 200	31.7	76.368	76.4	0.075

DATE 9/8/92	BY UF	
JOB NUMBER	OWNER/CLIENT JMM	nontoomery
LOCATION	· ·	
BORING EP-DI	SAMPLE 052	DEPTH

NUMBER OF RINGS	and	DISH	123
WT. OF RINGS & WET SOL	0 /	WT. OF DISH & WET SOL	2570
WT. OF RINGS		WT. OF DISH & DRY SOIL	344.5
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	1)[0.]
DRY DENSITY	<i>Y</i>	WT. OF DRY SOL	
		FIELD MOISTURE CONTENT	9.5

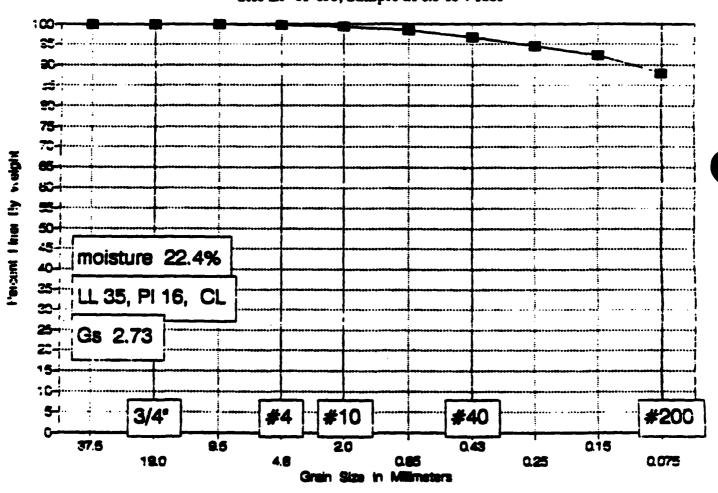
WASH SIEVE ______ DRY SIEVE ______ WEIGHT OF OVEN DRY SOL ______(grams)

DISH	DISH	SEVE.	WEIGHT	ACCUMILATINE	ACCUMULATI	VE PERCENT
NAMER	WEGHT	MARGER	REDNED	WEDNED	RETWED	nner .
		3"				
		1-1/2"				
•		. 3/4"		0		
		3/6*		4.7		
		#4		5.7		
		PAN		٠		
		TOTAL				

				ACCUM	A	COMMUNITYE PE	CBIT
DISH -	DISH WEIGHT	MARKET MARKET	REPARED	WEDWED	PAR	TRAL	TOBL
				12	REBUNED	FNER	PHER
		#10		7.7			
		#20		9.5			·
		#40		11.5			
		#60		14.3			
		#100		30'0			
		#200		317			
		PAN					
		TOTAL	·			•	

	TEST (ATA							_0	6 41	:	_	0	2	21	1 4			
: StatSterSan									Ξ,	JEN'	704	£# _	ا	\mathbf{m}	m	ICY		<u> </u>	
PATORY CLASSI									.:) C ± T i	1 ON _							-	
										801	RING	E	<u>-</u> _(SA	HPLE	<u>ر''</u>		<u>ٿ</u> 26	PTH
ELD DENSIT	Y :	•	.//	<u></u>															
NC I TANIMA STED	•			1			2] [3730	84 I N	AT ION					1			
NUMBER OF RIN	•65] [015#										
WT OF RINGS +	, WET 531] [w? o	F D15	\$H →	MET	5011						
WT OF RINGS								7 [wt O	F D1:	5H +	DRT	5011				_		
WT OF WET SO	i L								wT 0	F M01	STUR	E							
FIELD DENSITY	1] []	w1 0	F DI	SH							T	
DRY DENSITY] [w1 0	FORT	7 501	L							
-		_	_						FIEL	D M01	STUR	E CO	NTEN	7					•
ASTIC LIMIT	· •• 🔎	F.9,	104	22							_								
DETERMINATION				. —-	\neg				3		T		_	\neg		5		T	
		+		_	\dashv			+-			十一			十		<u> </u>		+-	
	WET SOIL		1					+			†			十				+-	
****************	***************************************			···	·	*****	-	+			+	*******		-	******	******		+-	
	*******		يكلا			تت.	-16-	: -			•		_				-	1	
WT OF DISH	***********	-		4		-		+			 			+				+-	
					·	<u> </u>	_	-		-	•		_		_		-	'	
		-	10	10	_	a	77	╅	= K	7	+-		-	十				+	
			15/4	10				مـــ											
		—			_		 -				_			_		_		_	
		+	_		a 			-		<u> </u>	+-		_	+		<u> </u>		+-	
		+-			2			+ #	14	4	┼─			十	_		_	╁	
		┿		_	. 			$+$ τ	/ 4	=	╁╌		_	+				┿	
	-						-				┼			┿				╅—	
****	****	┥ .	<u> </u>	25		10.	W	=	2.2	2	-				_		-	•	
				7			1	 	TX		 			+				+	
····			-4-	<u> </u>		-4-	=	-	1.5	_	-			1	-		_	'	_
		+-	クコ	ai		20	10	1-	21 /	<u> </u>	+-			十				╁	
			4 -1	رکت					71.1		<u></u>		-		_		_	ــــــــــــــــــــــــــــــــــــــ	-
							0	10	2	0)	•	.	70
FLOW CUR	VE :					77	PLA	STICE	TY (CHA	RT	\neg		T	П	T			T
					-	1:		\neg	T						┪	一	\neg	_	. 1
	· · · · · · ·			├-	-	+	-	+	┼		-	-+		-	十	-+		-	+
						4	\vdash		-		\vdash	_		_	-	_			4
					Ŀ	1:										ightharpoonup	اعر	1	
	9			•			IT					T	CL			3	**		
						1:		— —	1			\neg			7	7			
		$\overline{}$		┝	+	+÷		+	╁		 	-		- }	4	\dashv		-	
		Y	2	<u> </u>	<u> </u>	1:			╙					4	_	-		\rightarrow	_
i		-e	\sim	L	L :	1:						\bigvee			ı			# 6	0
	1	_									. 7	701						_	
				R	D.	\mathbb{J} :		2200	1				- (7				
					<u> </u>	\prec		777	L.A	41.//		ML	•	OL	7				
		H.			Q I	X			L-N	التكسيب		ML	•	OL-					
7 10		,				X	10		L-N	التكسيب		ML		OL-					
7 00	0 15	0 F .	LOW	\$		*	ivic t			التكسيب			لا	CATI]				
	WT OF RINGS WT OF RINGS WT OF RINGS WT OF WET SOI FIELD DENSITY THIS: ASTIC LIMIT DETERMINATION DISH WT OF DISH + WT OF DISH + WT OF DISH WT OF DRY SOI MOISTURE CONT DISH WT OF DISH + WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH + WT OF DISH + WT OF DISH + WT OF DISH + WT OF DISH + WT OF DISH + WT OF DISH	NUMBER OF RINGS WT OF RINGS + WET SOIL WT OF WET SOIL FIELD DENSITY DRY DENSITY THIS IS AN 1/8- ASTIC LIMIT BY DETERMINATION DISH WT OF DISH + WET SOIL WT OF DISH + DRY SOIL WT OF DISH SOIL MOISTURE WT OF DRY SOIL MOISTURE CONTENT DETERMINATION DISH HUMBER OF BLOWS WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH CONTENT WT OF DISH WT OF DI	WT OF RINGS WT OF RINGS WT OF RINGS WT OF WET SOIL FIELD DENSITY DRY DENSITY THIS IS AN 1/8-INCH ASTIC LIMIT BY DESCRIPT WT OF DISH + WET SOIL WT OF DISH + DRY SOIL WT OF DISH WT OF DISH WT OF DRY SOIL MOISTURE CONTENT DETERMINATION DISH HUMBER OF BLOWS WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH - DRY SOIL WT OF DISH WET SOIL WT OF DISH WET SOIL WT OF DISH WET SOIL WT OF DISH WET SOIL WT OF DISH WET SOIL	WT OF RINGS WT OF RINGS WT OF RINGS WT OF WET SOIL FIELD DENSITY DRY DENSITY THIS IS AN 1/8-INCH THRE ASTIC LIMIT BY AE. 9.10. DETERMINATION DISH WT OF DISH + WET SOIL WT OF DISH + DRY SOIL WT OF DRY SOIL MOISTURE CONTENT DETERMINATION DISH HUMBER OF BLOWS WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH - DRY SOIL WT OF DISH - WET SOIL WT OF DISH - DRY SOIL WT OF DISH - WET SOIL WT OF DISH - WET SOIL WT OF DISH - WET SOIL WT OF DISH - WET SOIL WT OF DISH - WET SOIL WT OF DISH - DRY SOIL WI OF DISH - DRY SOIL WI OF DISH - DRY SOIL	WT OF RINGS + WET SOIL WT OF RINGS WT OF WET SOIL FIELD DENSITY DRY DENSITY THIS IS AN 1/8-INCH THREAD— ASTIC LIMIT BY WE. 9.10.92 DETERMINATION 1 WT OF DISH + WET SOIL 1 WT OF DISH + WET SOIL 1 WT OF DISH + WET SOIL 1 WT OF DISH + WET SOIL 1 WT OF DISH 4 WT OF DISH 4 WT OF DISH 1 DETERMINATION 1 DISH 1 OUID LIMIT DETERMINATION 1 OTHER OF BLOWS 31 WT OF DISH + WET SOIL 1 WT OF DISH + WET SOIL 1 WT OF DISH + WET SOIL 1 WT OF DISH + WET SOIL 1 WT OF DISH + WET SOIL 1 WT OF DISH + WET SOIL 1 WT OF DISH + WET SOIL 1 WT OF DISH 4 WT OF	HUMBER OF RINGS WY OF RINGS - WET SOIL WY OF WET SOIL FIELD DENSITY THIS IS AN 1/8-INCH THREAD ASTIC LIMIT BY AE-9/10/92 DETERMINATION 1 DISH ALS WY OF DISH + WET SOIL 10/92 WY OF DISH + DRY SOIL 10/92 WY OF DISH + DRY SOIL 10/92 WY OF DRY SOIL 10/92 WY OF DRY SOIL 10/92 WY OF DRY SOIL 10/92 WY OF DRY SOIL 10/92 WY OF DRY SOIL 10/92 WY OF DISH + WET SOIL 11/95 WY OF DISH + WET SOIL 11/95 WY OF DISH + DRY SOIL 11/95 WY OF DISH +	NUMBER OF RINGS WT OF RINGS + WET SOIL WT OF WET SOIL FIELD DEMSITY DRY DEMSITY THIS IS AN 1/8-INCH THREAD ASTIC LIMIT BY WE 9/10/92 DETERMINATION 1 2 WT OF DISH + WET SOIL 10/11 17- WT OF DISH + DRY SOIL 10/11 17- WT OF DISH + DRY SOIL 10/11 17- WT OF DRY SOIL MOISTURE CONTENT 10/10 11 DETERMINATION 1 2 WIT OF DISH + WET SOIL 10/11 17- DETERMINATION 1 2 WT OF DISH + WET SOIL 11/95 13, WT OF DISH + DRY SOIL 1	NUMBER OF RINGS WT OF RINGS + WET SOIL WT OF RINGS WT OF WET SOIL FIELD DENSITY THIS IS AN 1/8-INCH THREAD ASTIC LIMIT OF DESIL PORT WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + DRY SOIL MOISTURE CONTENT DETERMINATION 1 2 AL D 12 WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH - DRY SOIL W	NUMBER OF RINGS WT OF RINGS WT OF RINGS WT OF RINGS WT OF RINGS WT OF RINGS WT OF RINGS WT OF WET SOIL FIELD DENSITY THIS IS AN 1/8-INCH THREAD ASTIC LIMIT BY OFF. 9/1992 DETERMINATION I 2 AL 5 AL 114- WT OF DISH + WET SOIL WT OF DISH + DRY SOIL WT OF DISH + DRY SOIL WT OF DRY SOIL WOISTURE CONTENT DUID LIMIT DETERMINATION I 2 WI OF DISH + WET SOIL WI OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH + WET SOIL WT OF DISH CONTENT WT OF DISH CONTENT WT OF DISH CONTENT PLASTICE PLASTICE PLASTICE	NUMBER OF RINGS WT OF RINGS + WET SOIL WT OF WET SOIL FIELD DENSITY DRY DENSITY THIS IS AN 1/8-INCH THREAD DETERMINATION DISN WT OF DISN + WET SOIL WT OF DISN + WET SOIL WO OF DISN WT OF DISN WT OF DISN WT OF DISN DISN WI OF DISN WT OF DISN WT OF DISN WT OF DISN WI OF DISN	DISH NUMBER OF RINGS DISH NT OF RINGS + WET SOIL WT OF RINGS WT OF DISH	MUMBER OF RINGS WT OF RINGS WT OF RINGS WT OF RINGS WT OF RINGS WT OF RINGS WT OF RINGS WT OF DISN - WT OF	DISH DISH	DISH DISH + WET SOIL DISH DISH + WET SOIL WT OF RINGS WT OF RINGS WT OF RINGS WT OF DISH + WET SOIL WT OF WET SOIL WT OF WET SOIL WT OF DISH + WET SOIL WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH WT OF DISH + WET SOIL DISH WT OF DISH + WET SOIL DISH WT OF DISH + WET SOIL DISH WT OF DISH + WET SOIL DISH WT OF DISH + WET SOIL DISH DISTURE CONTENT DISTURE CONTENT DISTURE CONTENT DISTURE CONTENT DISH DISTURE CONTENT DISH DISTURE CONTENT DISH DISTURE CONTENT DISH DISTURE CONTENT DISH DISH DISH DISH DISH DISH DISH DISH DISH DISH DISH DISH DISH DISH DISH DISH DISH DISTURE CONTENT DISH DISH DISTURE CONTENT DISH DISTURE CONTENT DISH DISTURE CONTENT DISH DISTURE CONTENT DISH DISTURE CONTENT DISH DISTURE CONTENT DISH DISTURE CONTENT DISH DISTURE CONTENT DISH DISTURE CONTENT DISH DISTURE CONTENT DISH DISTURE CONTENT DISTURE CONTENT DISTURE CONTENT DISTURE CONTENT DISTURE CONTENT DISTURE CONTENT DISTURE CONTENT DISTURE CONTENT DISTURE CONTENT DISTURE CONTENT DISH DISTURE CONTENT DISTURE CONTE	NUMBER OF RINGS UT OF RINGS + WET SOIL UT OF RINGS + WET SOIL UT OF RINGS UT OF WET SOIL UT OF WET SOIL UT OF WET SOIL UT OF DESITY DAY DEUSITY DAY DEUSITY THIS IS AN 1/8-INCH THREAD DETERMINATION 1 2 3 A ASTIC LIMIT ST ALL SOIL UT OF DISH + WET SOIL UT OF DISH + WET SOIL UT OF DISH + WET SOIL WI OF DISH + WET SOIL WOISTURE UT OF DISH + WET SOIL WOISTURE CONTENT DUID LIMIT DETERMINATION 1 2 3 A A 114- UT OF DISH + WET SOIL WOISTURE CONTENT DUID LIMIT DETERMINATION 1 2 3 A A 114- UT OF DISH + WET SOIL UT OF DISH + WET SOIL UT OF DISH + WET SOIL UT OF DISH + WET SOIL UT OF DISH + WET SOIL UT OF DISH + WET SOIL UT OF DISH + WET SOIL UT OF DISH + WET SOIL UT OF DISH + WET SOIL UT OF DISH + WET SOIL UT OF DISH + WET SOIL UT OF DISH + WET SOIL UT OF DISH + WET SOIL UT OF DISH + WET SOIL UT OF DISH + WET SOIL UT OF DISH + WET SOIL UT OF DISH -	NUMBER OF RINGS TO FRINGS - WET SOIL TO FRINGS - WET SOIL TO FOURT SOIL TIELD DENSITY DAY DENSITY THIS IS AN 1/8-INCH THREAD DETERMINATION TO DISH TO FOISH - WET SOIL	NUMBER OF RINGS TO FRINGS - WET SOIL TO OF RINGS - WET SOIL TO OF RINGS - WET SOIL TO OF WET SOIL TO OF WET SOIL THELD DENSITY THIS IS AN 1/0-INCN THREAD DISM ASTIC LIMIT BY WET SOIL TO OF DISM + WET SOIL TO OF DISM + WET SOIL TO OF DISM + WET SOIL TO OF OTSM + WET SOIL TO OF OTSM + WET SOIL MOISTURE TO OF OTSM + WET SOIL MOISTURE TO OF DISM + WET SOIL MOISTURE TO OF DISM + WET SOIL MOISTURE CONTENT DETERMINATION 1 2 3 4 5 TO OF DISM + WET SOIL MOISTURE CONTENT DETERMINATION 1 2 3 4 5 TO OF DISM + WET SOIL MOISTURE CONTENT DISM ALLOD ALTO ALIZ TO OF DISM + WET SOIL TO OF DISM + WE	NUMBER OF RINGS TO FRINGS - WET SOIL WE OF RINGS TO OF RINGS WE OF RINGS WE OF DISH - DRY SOIL WE OF DISH - DRY SOIL WE OF DISH - DRY SOIL WE OF DISH - DRY SOIL WE OF DISH - DRY SOIL WE OF DISH - DRY SOIL WE OF DISH - DRY SOIL WE OF DISH - DRY SOIL WE OF DISH - DRY SOIL WE OF DISH - DRY SOIL WE OF DISH - DRY SOIL WE OF DISH - DRY SOIL WE OF DRY SOIL WE OF DRY SOIL WE OF DRY SOIL WE OF DRY SOIL WOUSTURE WE OF DRY SOIL WO DISH - DRY SOIL WE OF DRY SOIL WE OF DRY SOIL WO DISH - DRY SOIL WE OF DRY SOIL WE OF DRY SOIL WE OF DISH - WET SOIL WE OF DISH - WET SOIL WE OF DISH - WET SOIL WE OF DISH - DRY SOIL WE OF DRY SOI	NUMBER OF RINGS TO FRINGS + WET SOIL TO FRINGS + WET SOIL TO FRINGS - WET SOIL TO FR

Site EP-01-053, Sample at 6.5 to 7 feet



James M. Montgomery F.O. 2942-0130

site ID	EP-01-053	Wt soil and dish	209.2
Depth	6.5-7, feet	Dry soil & dish Dish	191 109.6

Moisture Content = 22.4

SIEVE ANALYSIS

Try weight of total sample= 81.4

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0.2	99.75%	99.8	4.8
# 10	0.6	99.26%	99.3	2.0
# 20	1.3	98.40%	98.4	0.85
# 40	2.6	96.814	96.8	0.43
# 60	4.5	94.478	94.5	0.25
# 100	6.3	92.26%	92.3	0.15
# 200	9 9	P7 962	88 0	0.075

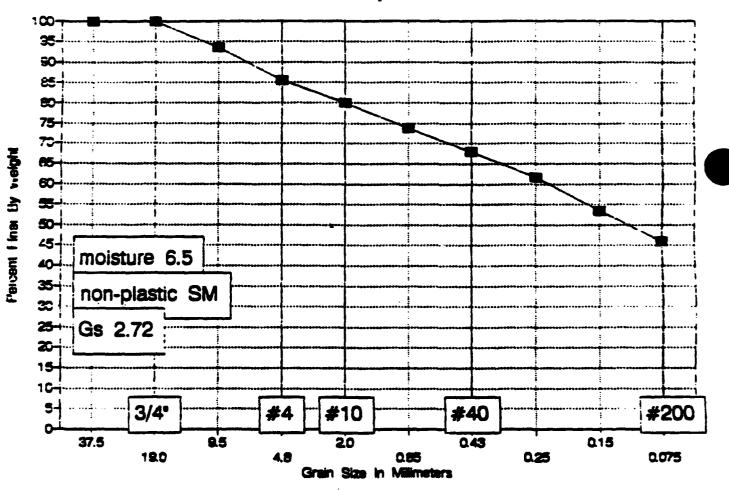
NUMBER	OWNER/CLI	ent <u>um montzor</u>	ne izi
ng EP-01	SAMPLE	OFF DEPTH .	65-21
NUMBER OF RINGS	Laar	Tidish	125
WT. OF RINGS & WET SOL	U /	WT. OF DISH & WET SOL	209.2
WT. OF RINGS		WT. OF DISH & DRY SOL	191.0
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	09.6
DRY DENSITY		WT. OF DRY SOL	1
·		FIELD MOISTURE CONTENT	22.4

DISH	DISH	SEVE	WEGHT	ACCUMULATIVE WEIGHT	ACCUMULAT	ME PERCENT
NAMER	BER WEGHT	MARGER	RETANED	RETAINED	RETROED	FINER
		3.				
		1-1/2				
•		· 3/4°				
		3/8*	-	0		
		#4		.2		
		PAN		·		
		TOTAL				

				ACCUM	ACCUMALATIVE PERCENT				
OISH NUMBER	DISH WEIGHT	SEVE MANGER	WEDLED	WEGHT	PAR	TRAL	TOTAL		
				TE THE	RETAINED	ANER .	rner.		
		#10		.6					
		#20		1.3					
		#40		26					
		#60		4.5					
		#100		6-3					
		#200		9.9					
		PAN							
		TOTAL							

BERG LIMITS 7 U slabbificatio								6 F I	B NG.	OWNE	R	Jr	ń		Or	110	<i>-0</i> 1	$\overline{\Upsilon}$
PATORY CLASSIFE						•												
ELD DENSITY						•			BORI	NG 5	*	ر Is	AMPL	£ _'(ブグ	20	EPTH	
DETERMINATION			1		2		Г	ETER	TARIE	IOH				1		\top		2
NUMBER OF RINGS				 			H	DISM	=		 .					+	-	_
WT OF RINGS + W	ET SOIL			 		7	h	IT OF	DISH	+ WE	T 501					t		_
WT OF RINGS				†	*********		-	IT OF	DISH	+ DR	7 501	ı.			******	+		
WT OF WET SOIL	***************************************	_		-		·	-	IT OF	MO151	TURE			-		_		_	
FIELD DENSITY						\neg	7	T OF	DISM							+		
DRY DENSITY							"	IT OF	DRY :	SOIL	********		-					_
THIS IS	AN 1/6-INC	H THRE	40				Ţ	IELD	40151	IURE	CONTE	HT						_
ASTIC LIMIT	or LAE.	216	32						-									
DETERMINATION			1		2	\Box		3	\Box		¥			5.		Ţ		6
DISH			-112		产主				\dashv							\perp		
WT OF DISH + WE			00		t.O.						,					\bot		
WT OF DISH + DR	7 501 L	<u>9.</u>	<u>30</u>	12	2.00		_		-			-	_		_			
WT OF MOISTURE				ļ				***********							·····	4		
WT OF DISH		<u>ـــاــ</u>	4	1	<u>.4 </u>				-	_		- 1	_		_		_	
WT OF DRY SOIL		172	OP2	1	77.7	_	_		- 	-		\dashv				4		
MOISTURE CONTEN	<u>' </u>	10	.99	<u> 19</u>	.34		X:	= 9								1		
QUID LIMIT																		
DETERMINATION			l		2			3	\Box		4	\Box		5				6
DISM			127		لللا	丑_		4	<u> </u>							1		
NUMBER OF BLOWS		3			10			2				_				1		
WT OF DISH + WE'	T SOIL		72		.00			ايط				_			•	_		
WT OF DISH + DR	7 501 L	9.	02		1.18		2	3.64	<u>- </u>	_		.	_	_			_	
WT OF MOISTURE			ж	ļ			<u>_</u>				nginin aa					+		
WT OF DISH		_1.4	4_	_	.4		_1	4	-	_		•	-				_	_
WT OF DRY SOIL		2A.	24	2	1 12	_	~	1.7	, 					<u> </u>		┿		
MOISTURE CONTENT	<u> </u>	34.	10		462	2	<u> </u>	7.2	<u>5</u>			i						
					0	10	1	20		L 1 Q 30	UID	L P		0		0	71	•
FLOW CURVE	E				PL	AST	CIT	Y¢	HAR	r								
;	•			:					止		L					Ü	н	
!	•			:					T	T								/
: :		1				1-1		1	\top	+	1							
:		+-	 	•	:-	+-+		_	+	+-	+-	\vdash	-	-				
	·	+	 		:	╂═╃			-	+	CL	-	├-	 '	4			
	 ;							igspace		\bot	人		_		<u> </u>			
										1	1)							
	1				:			T	\top	丁	\overline{V}	1			•	414	0	4
i	- ; (*	一	-					土	フ	\top			 	<u> </u>	ĺ.		Т
		+-	X	4	:+-	+	///C	L-M	11111	4*	IĻ e	Or-	├	 	 		\vdash	\vdash
7 10	<u> </u>			۳ پٽ	<u>. Ļ</u>						Щ.	1	<u> </u>	<u> </u>				L
	IS IBER OF	70 . Blow	25 3 0 S	40	50													
MMARY								سعبب										
		_			ASTIC	L1011	ידו	PLAST	ICIYY Ex	101	ENTIF	ICAT	100					
DRT DENSITY	MJISTURE CONTENT		25	11.	19		-	IE										_

GRADATION CURVE Site EP-01-058, Sample at 5 to 5.5 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-058	Wt soil and dish Dry soil & dish	268.6 259
Depth	5-5.5 feet	Dish	112

Moisture Content = 6.5

SIEVE ANALYSIS

Dry weight of total sample= 147

Sieve Size	Weight Retained	Finer	% Finer	Sleve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.004	100.0	19.0
3/8 inch	9.4	93.61%	93.6	9.5
# 4	21.3	85.51%	85.5	4.8
# 10	29.4	80.00%	80.0	2.0
# 20	38.4	73.88%	73.9	0.85
# 40	46.9	68.10%	68.1	0.43
# 60	56.4	61.63%	61.6	0.25
# 100	68.5	53.40%	53.4	0.15
# 200	79.4	45.99%	46.0	0.075

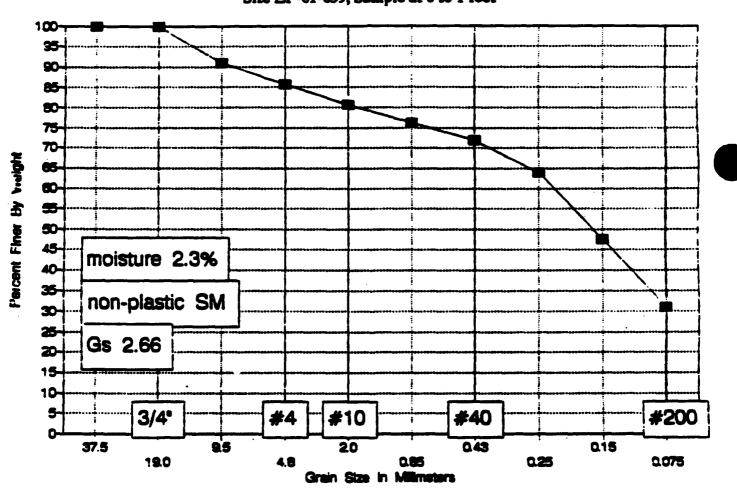
MTE 9/3/97 OB NUMBER - 6081		af Immontoo	mery
oring <u>EP-01</u>	. SAMPLE	059 DEPTH _	5-55'
NUMBER OF RINGS	bagy	DISH	300
WT. OF RINGS & WET SOL WT. OF RINGS		WT. OF DISH & WET SOIL WT. OF DISH & DRY SOIL	259.0
WT. OF WET SOL FIELD DENSITY		WT. OF MOISTURE WT. OF DISH	1120
DRY DENSITY	/	WT. OF DRY SOL. FELD MOISTURE CONTENT	0.5
WASH SIEVE DRY SI	EVE	WEIGHT OF OVEN DRY SOIL	(ora

DISH	DISH	SEVE	WEGHT	ACCUMULATIVE WEIGHT	ACCUMULA	INE PERCENT
NAMBER	WEGHT	KARER	NETWED NETWED	RETAKED	PNER	
		3°				
	·	1-1/2*				
•		. 3/4		0		
		3/6	,	9.4		
	·	#4		21.3		
		PAN		·	•	
		TOTAL				

			<u> </u>			CCUMULATIVE PER	KENT		
DIBH NUMBER	WEGHT	MAGER	WEDLED	WEINED	W	TPAL,	TOTAL		
							REPARED	PAGE N	PAGE .
		#10		29.4		·			
		#20		38.4					
		#40		46.9					
		#60		564					
		#100		685					
		#200		79.4					
		Mai							
		1517°.							

BERG LIMITS TEST DA	TA		J06 4	:. <u> </u>	11211	 	<u> </u>	- <u>-</u> C
1 CL4351F1C4710N								
PATORY CLASSIFICATION			80	RINS EP:	CISAMPL	£ 054	DEPT	,
ELD DENSITY ET	//				Q (0	. 992		-
DETERMINATION	1	2	DETERMIN	AT ION		1	1	2
NUMBER OF RINGS			DISH			<u></u>		
WT OF RINGS + WET SOIL			WT OF DE	SH + WET SOI	ı			
WT OF RINGS	************		WT OF DI	SH + DRT 501	L	14000000000		
WT OF WET SOIL			WT OF MO	STURE			-	
FIELD DENSITY			WT OF DI	5#				,
DRY DENSITY			WT OF DR	7 501L				
THIS IS AN 1/8-IN	CH THREAD -		FIELD MO	STURE CONTE	NT	<u></u>		
LASTIC LIMIT BY LOF.	9,802							•
DETERMINATION	1	2	3			5,	1	6
DISH	ALIZ	ALIZT						
WT OF DISH + WET SOIL	18.78	20.59		1-6	14V			
WT OF DISH + DRY SOIL	6.65	19.24						-
WT OF MOISTURE								
WT OF DISH	14	1.4					T	
WT OF DRY SOIL					- -			
MOISTURE CONTENT	13.9+	13.95	V=14-					
QUID LIMIT								
DETERMINATION	1	/ 2	1 3	/ 4	\top	5	1	6
DISM	AL96		A-4-/	(0)	11/1	not	MOF	
NUMBER OF BLOWS	1	TALL	1 7		tide	2000	Ho_	
WT OF DISH + WET SOIL	\/					J C		
WT OF DISH + DRY SOIL	X		X	1		(25)		-
WT OF MOISTURE	77	177			. -			
WT OF DISH	/1.4	1/1.4	1.4					
WT OF DRY SOIL			\	\				
MOISTURE CONTENT	/	V	V	1				
				L10010			_	
FLOW CURVE	TII	PLA	TICITY CHA		<u> </u>		· ·	
			-1-1-		 		CH	
		┵┼┼┼┼	+		 			
			++-		 			K
							1	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$
				CL	1 1	1.1.		-
								Π
		-: : - 				1	-	
			++-+-					!
			++-		 	<u> </u>	# 6 0	-
	1 1 1						1 1	1
			CL-ML	ML a	OL			╁╌

GRADATION CURVE Site EP-01-059, Sample at 0 to 1 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-059	Wt soil and dish	306.2
Depth	0-1 feet	Dry soil & dish Dish	301.7 109.8

Moisture Content = 2.3

SIEVE ANALYSIS

Dry weight of total sample= 191.9

Sieve Size	Weight Retained	Finer	t Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	17.3	90.98%	91.0	9.5
# 4	27.3	85.77%	85.8	4.8
# 10	36.9	80.77%	80.8	2.0
# 20	45.6	76.248	76.2	0.85
# 40	54	71.86%	71.9	0.43
# 60	69.1	63.99%	64.0	0.25
# 100	100.5	47.63%	47.6	0.15
# 200	132 4	31 019	31 0	0.075

SA

MECHANICAL ANALYSIS

DATE 9/10/92	BY LAF	
JOB NUMBER	OWNER/CLIENT UMM	lantzome.Ry
BORING EP-01	SAMPLE 059	DEPTH
	Hoge II and	

WT. OF RINGS		WT. OF DISH & DRY SOL	3017
WT. OF WET SOL		WT. OF MOISTURE	
FELD DENSTTY		WT. OF DISH	109.8
DRY DENSITY		WT. OF DRY SOL	
•	•	FELD MOISTURE CONTENT	2.3

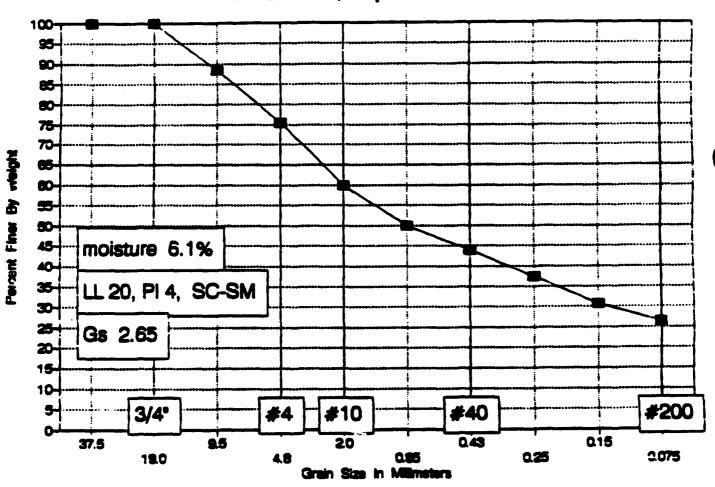
WASH SIEVE ______ DRY SIEVE ______ WEIGHT OF OVEN DRY SOL ______(grams)

DISH	DISH DISH WEIGHT	SEVE	WEIGHT	ACCIMILATIVE	ACCUMULATE	VE PERCENT
NAMBER		WEIGHT NAMER PETWED	WEGHT MARGER	WEIGHT MANGER	WEIGHT -	RETAINED
		3"				
		1-1/2	A.			
•		. 3/4		0		
		3/8"		17.3		
		#4		27.3		
		PAN				
		TOTAL				

		SEVE MANGER	WEGHT	ACCUAL WEIGHT METHNED	ACCUMILATIVE PERCENT					
CISH NUMBER	DISH WEIGHT				PARTIAL		TOTAL			
	<u> </u>][RETAINED	rver.	PAGE			
		#10		36.9						
j		#20		45.6						
		#40		54.0						
		#60		69.1						
		#100		100.5						
		#200		132.4						
		PAN								
		TOTAL								

ERBERG LIMITS TEST DAT 		. 		:	LIENT		لك	rıı		<u>1 </u>	(50)	rrie	<u>. Į.</u>
SOFATORY CLASSIFICATION _	. .				JUA.I Ene	0A 1A 3	D_C) Same	n s 2	75-5) 058	Th !	ラ
FIELD DENSITY ST	/					140 1	2 _\			م_ب	_ 00,	•	-
DETERMINATION	•		2	0676		T 10N	-		1		1	2	
NUMBER OF RINGS				DIS									
WT OF RINGS + WET SOIL				wt :	F DIS	H + WET	501 L						
WT OF RINGS				WT (F 015	H + ORT	\$016						_
WT OF WET SOIL				WT	F 401	STURE							_
FIELD DENSITY				WT	F DIS	H							_
DRY DENSITY				WT C	F DRT	SOIL							
THIS IS AN 1/8-INC				FIE	.0 401	STURE 4	PHTEN	7					
PLASTIC LIMIT BY WE.	91492	•		•				_				•	
DETERMINATION	1	2		3			¥.		5.			6	
DISM	XL 129	AL	5/		CO	VIA					<i>kud</i>		_
WT OF DISH + WET SOIL		\overline{Z}	/				OP	Ga	1716				
WT OF DISH + DET SOIL	X		_		_						_		_
WT OF MOISTURE		<u></u>	7		********	*********	*********						
WT OF DISH	1.4	1 /44	<u> </u>		_			- 1			-		_
WT OF DRY SOIL		/	$-\mathcal{L}$		_			4			 		_
MOISTURE CONTENT	<u></u>	<u> </u>											_
LIQUID LIMIT													
DETERMINATION	1	2		3			4		5			6	
DISM	AL114	XL	99	AL	$1\mathbf{Z}$		CC	JUL	<u>1 r</u>	101	16	٤-	
NUMBER OF BLOWS											42		_
WT OF DISH + WET SOIL		1	<u> </u>				*******	AL	שני	<u>'</u> (4	JUK	生	عدور
WT OF DISH + DRY SOIL	<u> </u>	l/	Ψ	<u> </u>	_			1		少)	-		_
WT OF MOISTURE		 			/		*******				 		_
WT OF DISH	/1. 4\	کلکر ا	4 \	<i>A.</i> 4	1			1		_	-		_
WT OF DRY SOIL	/	/	\	/	-	-		-			╁		_
23131611		<u>'</u>											
			0	10	20	L I QI	U I D	LIMI	T 50	•	•	_70	
FLOW CURVE			PLAS	TICITY	CHA	RT							I
		: :									CH		
; ;									7				٢
 	╅	: :	 	+ +	╁╌┼		╁╌╂	\dashv	╁			4	t
		+ +	╀╌┼╌	+	+		┼ ┤			رعي ا	4	╬	+
		4	1_		-		CL	_	٠,			-∔-	1
		: :							X				
•					П			X					T
	1-1-1		1	1 1	1 1	_	7	1	1		#H &	—	†
 		+++	 	+	+-+		{ 	+	+	+	- - -		t
		خلن	├	WCL-	ML VIII	M	Ļ .	5 L+		-	$\vdash \downarrow$		+
	T T I								-				- 1
3 7 10 13	70 25 30	<u> </u>	90		100		لــــــــــــــــــــــــــــــــــــــ	L_					1

Site EP-01-061, Sample at 4.5 to 5 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-061	Wt soil and dish Dry soil & dish	2 82 271.9
Depth	4.5-5 feet	Dry soil a dish	106.2

Moisture Content = 6.1

SIEVE ANALYSIS

Dry weight of total sample= 165.7

Sieve Size	Weight Retained	Piner	% Finer	Sieve opening mm
1.5 inch	0	100.00\$	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	19.1	88.47%	88.5	9.5
# 4	40.6	75.50%	75.5	4.8
# 10	66.3	59.99%	60.0	2.0
# 20	83.1	49.85%	49.8	0.85
# 40	92.9	43.93%	43.9	0.43
# 60	103.7	37.428	37.4	0.25
# 100	114.8	30.72%	30.7	0.15
# 200	122 1	26.318	26.3	0.075

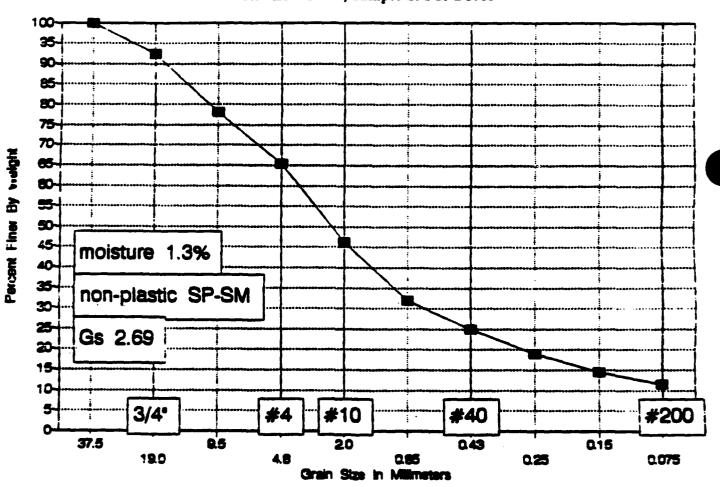
TION	OWNER/CL	en um montoc	
G EP-01	SAMPLE	061 DEPTH .	4.5-5
NUMBER OF RINGS	baar	IJ-oish	82
WT. OF RINGS & WET SOL	0	WT. OF DISH & WET SOL	2920
WT. OF RINGS		WT. OF DISH & DRY SOL	271.9
WT. OF WET SOIL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	[06.2
DRY DENSITY	7	WT. OF DRY SOL	

DISH	DISH	SEVE	WEGHT	ACCUMILATIVE	ACCUMALATI	VE PERCENT
NAMBER	WEGHT	NAMER	REDWED	WEGHT -	RETARED	PNER
		3"				
	·	1-1/2*				
•		· 3/4°		0		
		3/87		19.1		
	·	#4		40.6		
		PAN		·		
		TOTAL				

		SEVE MAGER		ACCUM	ACCUMULATIVE PERCENT					
DISH NUMBER	DISH WEIGHT		WEDNED	WEDWED	PARTIAL		TOTAL			
					REDNED	PHER	FNER			
		#10		106.3		·				
		#20		83.1						
		#40		99,9						
		#60		1037						
		#100		114.8						
		#200		1997						
			<u> </u>			•				
		PAN								
		TOTAL								

ATIER	RBERG LIMI	TS TEST DA	LTA						108	NC		0	/	2 1	7/1/	ant.	7-0	$\overline{\sim}$
. ::	iu staliffi	47109																
i 4 €0)=110FY (L18	SIFICATION							LOCA	ATION	. E	20	11	MB. 5	7	QL 0		
		SITY SY								ROWIN	c <u>C</u> /	ייביי	_1 2*	MPLE	'	ÕΓ	16 - 11	
	DETERMINAT	I ON	T	1	\top	2		٦	ETERM	INATIO) N		T		1			2
	NUMBER OF	RINGS	 		+				15#	•			一			$\neg \uparrow$		
	WT OF RING	S + WET SOIL			十			-	T OF	DISH +	WET	501						
	WT OF RING	<u></u>	1	**********	+-		**********		T OF	DISH 4	DRY	501		*******		_		
	WT OF WET	\$01 L	1 —		1	_	-	-	T OF	MOISTU	RE	********	_	-		•	_	
	FIELD DENS	ITY	+		+			-	T OF	DISH			_		***			
	DRY DENSIT	٧	1		十			-	T OF	DRY SO	116			_		•	_	
	THE	- 15 AH 1/8-1	NCH THRE	A0 -	士		-		IELD (10 I STU	RE C	ONTE	17		_	十		
• •	LASTIC LIN	AIT BY LAF	=010	12														
	DETERMINAT			1	\top	2			3			<u>. </u>	Т		5			6
	DISH	·		<i>P</i> 2	+	AU	20		•	+			7		 -	_		
		+ WET SOIL		o Alo	_		20						一			_		
	WT OF DISH	+ DRY SOIL	1 12	43	***		47		********				_	*******		-		
	WT OF MOIS	*******	1 44	مسست	'	<u> 17./*</u>	أستاسا						`	-		·		
	WT OF DISH	T ambaa aa aa aa aa aa aa aa aa aa aa aa aa 	1 7	Æ	1	1.	4			_	*********		_		******			
	WT OF DRY	501 L			1								`			'		
	MOISTURE C	ONTENT	15/	50		50	19	₹:	= 16	,			\neg			\top		
LI	OUID LIMIT	<u> </u>	<u> بالمحمام المحمام</u>															
	DETERMINAT	I ON	T	1	T	2			3				Т		5	\top		6
	DISH		AI	92	\top	AL	104	A	LIO	0								
	NUMBER OF	LOWS		29	\top		0		0									
	WT OF DISH	+ WET SOIL		3.09			<i>O</i> +	17	1.60	5								
	WT OF DISH	+ DRY SOIL		.16	T		97		.29									
	WT OF MOIST	IURE																
	WT OF DISH			4			<u> </u>		.4_									
1	WT OF DRY	101 L														丄		
ļ	MOISTURE C	DUTENT	19	<u>53</u>	<u></u>	21.	<u>OL</u>	_23	3.6				l_	.=				
									_		_ I QU					**		_
f				TT			PLAS	TICIT	7 CH	7	30			90	\neg	- C		
	FLOW C	URVE	į.							i							1 :	_
		+		++	•	-		1-1		T	Τ	1			- 1	6	F.	1
1	FLOW C			\Box	-	+			1	\bot					+	-		
-		+														_ c		Z
16H1		+				+										6	*	Z
Soutent		+		 	-	+-+-						CL			1	- C		2
1 23					-							CL				- C	*	2
23 22 23 22 23 22 23 22 23 22 23 23 23 2												C.			1.1.1	-	H	2
12 23 22 23 27 21 21 21 21 21 21 21 21 21 21 21 21 21												Cr.			1			2
23 27 21 20 20 20 20 20 20 20 20 20 20 20 20 20												c.			121	MOH :		
20121															,,,,,,			
TERNITORIUM CONTENT											MI		01.		;i,i,			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
20121		10 15	.00	25 30						***************************************	MI		OL-					
12 20 12 K	3 7		.00	25 30							MI		OL-					7
12 20 12 K		IO IS NUMBER O	.0 F BLOW	25 30		• • • • • • • • • • • • • • • • • • • •	0		1,00	<u> </u>			<u> </u>					

GRADATION CURVE Site EP-01-063, Sample at 1 to 2 feet



James M. Montgomery 3.0. 2942-0130

Site ID	EP-01-063	Wt soil and dish Dry soil & dish	307.7 305.2
Depth	1-2 feet	Dish	109.2

Moisture Content = 1.3

SIEVE ANALYSIS

Dry weight of total sample= 196

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	• 0	100.00%	100.0	37.5
3/4 inch	14.9	92.40%	92.4	19.0
3/8 inch	42.8	78.16%	78.2	9.5
# 4	67.8	65.41%	65.4	4.8
# 10	105.4	46.22%	46.2	2.0
# 20	133.3	31.99%	32.0	0.85
# 40	147.3	24.85%	24.8	0.43
# 60	158.9	18.93%	18.9	0.25
# 100	167.5	14.54%	14.5	0.15
# 200	172 5	11 488	11 5	0.075

CA

JOB NUMBER	BY	ENT JM MONTGOIT	nery	-
BORING EP-01	SAMPLE_	063 рертн	1-2'	
NUMBER OF RINGS	baar	DISH	203]
WT. OF RINGS & WET SOL	0/	WT. OF DISH & WET SOL	J 307-7]
WT. OF RINGS		WT. OF DISH & DRY SOL	305.2	
WT. OF WET SOL		W . OF MOISTURE		[
FELD DENSITY		WT. OF DISM	1 109.2	ł
DRY DENSITY	/	WT. OF DRY SOL	1	Ì
•		FIELD MOISTURE CONTENT	1.3	
WASH SIEVE DRY SE	VF	WEIGHT OF OWEN DRY SOL		(crams)

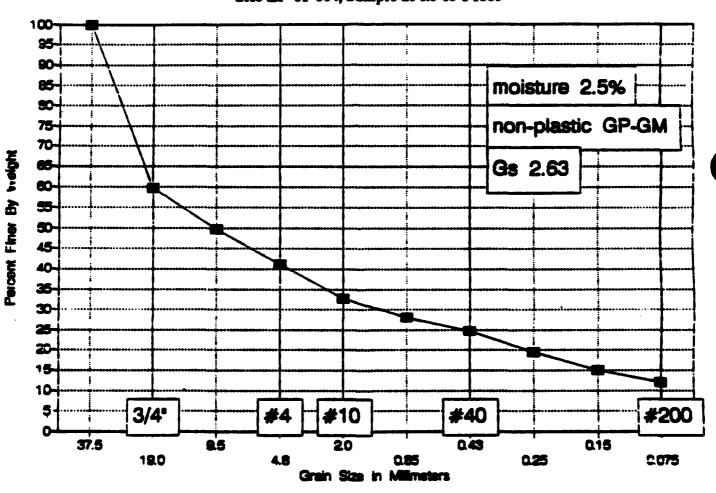
***************************************				11201110	. 0,0,0, 002	
DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE	ACCUMULAT	ME PERCENT
NAMBER	WEGHT	MANDER	REDAKED	WEIGHT REDANED	RETAINED	FNER

		MARKER	11							
NAMEER	WEGHT		REDANCED	WEGHT REDUNED	RETANED	FNER				
		3*								
		1-1/2*								
·		· 3/4°		149						
		3/8*		42.8						
		#4		42.8 67.8						
		PAN		•						
	•	TOTAL								

			WEGHT	ACCUAL WEIGHT	ACCUMULATIVE PERCENT						
DISH NUMBER	MEIGHT	SEVE MARGER			PAR	TIAL	TOTAL				
				REDANED	REPARED	PNER	rner .				
		#1 0		105.4		•					
		#20		133.3							
		#40		147.3							
		#60		158.9							
		#100		167.5							
		#200		173.5							
		PAN									
		TOTAL									

ELD STATEMENTATION			130411	/0+NEF 11)		_
BOPATORY CLASSIFICATION			808	11N3 127-0' S	SAMPLE DE	<u> </u>
FIELD DENSITY ET						
DETERMINATION	:	2	DETERMINA	T 10H	1	T
NUMBER OF RINGS			DISH			T
WT OF RINGS + WET SOIL			WT OF DIS	H - WET SOIL		
WT OF RINGS			WT OF DIS	H + DRY SOIL		
WT OF WET SOIL			WT OF MOS	STURE		
FIELD DENSITY			WT OF DIS	N ·		
ORT DENSITY		<u></u>	WT OF DRY	501L		
THIS IS AN 1/8-			FIELD NO!	STURE CONTENT	L	<u> </u>
PLASTIC LIMIT BY LA	F. 9982					
DETERMINATION	1	2	3	4	5	T
DISH	13/	120 /	COL	ly not	thera	H
WT OF DISH + WET SOIL		$\prod \int$			ray)	T
WT OF DISH + DRY SOIL		I V				T
WT OF MOISTURE						
WT OF DISH	1.4	1.4				
WT OF DRY SOIL						
MOISTURE CONTENT	<u></u>	<u> </u>	\L	<u> </u>		
LIQUID LIMIT						
DETERMINATION	1 1	2	A 3 /	4	5	T
DISH	X4L 109	103	94/	COU	la not	16
NUMBER OF BLOWS	177	1			adenta	FZ
WT OF DISH + WET SOIL				N	ww'co	dr
WT OF DISH + DRY SOIL					125)	
WT OF MOISTURE	\bot	$\perp \Delta$			 	↓_
WT OF DISH	1/1.4	1.4	1.4			
WT OF DRY SOIL	+	 /	//	ļ		╀
MOISTURE CONTENT		<u>V</u>	Ψ	<u> </u>	l	
				LIQUID LI		_
FLOW CURVE		: 1 : 1=, 2	STICITY CHA	30 40	<u> </u>	1
PLOW CORVE		+ + +			+ + -	
		- 			 	CI
						1
				CL		
+ + + + + + + + + + + + + + + + + + + +		* * - 		-+-+-+ -		
		- - - 			14-1-1	
					1-1-1	
]						424 4
			WCL-MLW			
				ML & OL		

Site EP-01-064, Sample at 0.5 to 1 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-064		Wt soil and dish Dry soil & dish	418.1 410.7
Depth	0.5-1 feet	•	Dish	112.9

Moisture Content = 2.5

SIEVE ANALYSIS

Dry weight of total sample= 297.8

Sieve Size	Weight Retained	Finer	\$ Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	120.5	59.54%	59.5	19.0
3/8 inch	149.5	49.80%	49.8	9.5
# 4	175.4	41.10%	41.1	4.8
# 10	200.2	32.778	32.8	2.0
# 20	214.1	28.11	28.1	0.85
# 40	224.1	24.75%	24.7	0.43
# 60	239.6	19.54%	19.5	0.25
# 100	253.1	15.01%	15.0	0.15
# 200	262 1	11 998	12.0	0.075

DATE 9/3/97 JOB NUMBER 10091	BY	if um montgo	mezy	_
LOCATION				
BORING EP-01	SAMPLE	064 DEPTH	0.5 -1'	
,				
				•
NUMBER OF RINGS	MACY	DISH	30	}
WT. OF RINGS & WET SOIL	0	WT. OF DISH & WET SOL	1.410.1	İ
WT. OF RINGS		WT. OF DISH & DRY SOL	1 410.7	ł
WT. OF WET SOL		WT. OF MOISTUPE		i
"FIELD DENSITY		WT. OF DISH	[29	1
DRY DENSITY	/	WT. OF DRY SOL		
•	-	PELD MOISTURE CONTENT	2.5]
MASH SEVE DRY SE	Æ	WEIGHT OF OVEN DRY SOL		(crame)

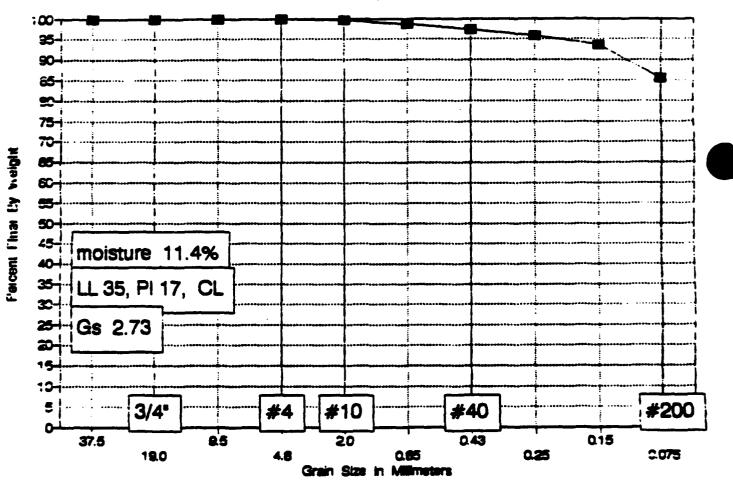
DISH	DISH	SEVE	WEGHT	ACCUMULATIVE WEIGHT	ACCUMULATIVE PERCENT					
NUMBER	WEGHT	NAMER	RETAINED	RETAMED	RETAINED	PNER				
		3"								
		1-1/2								
·		· 3/4°		120.5						
		3/6"		149.5						
		#4		1754						
		PAN		·						
		TOTAL								

				ACCUM	ACCUMULATIVE PERCENT						
NUMBER	WEIGHT	SEVE MANSER	WEIGHT RETUNED	WEIGHT	PAS	MAL	TOTAL				
				TE SAILED	RETANCED	RHER	PNER				
		#10		ಕುರಿಂಕ		·					
	•	#20		214.1							
		#40		1.466							
		#60		239.6							
		#100		253.1							
		#200		262.1							
	·	PAN									
		TOTAL									

11 014151F104789N			. 													
0-41064 CL4551F1C471	ON		. 				•	ВО	RING	EI	20) sa	MPLE	: 0	164	- DE
FIELD DENSITY ST.		.//	. •							- 4					,	-
DETERMINATION		1	$\neg \tau$	2		7 (DETE	RHINA	AT 101			7		1		Т
NUMBER OF RINGS						7 I	0151					7				+-
WT OF RINGS + WET S	011					7 }	WT 0	F 01:	5 H +	WET	501					†
WT OF RINGS				*******		~j j	wT 0	F 015	\$H +	DRT	5011				*******	1
WT OF WET SOIL			-			11	WT 0	F #0	STU	I E			_		_	-
FIELD DENSITY						7 1	WT 0	F DI	5 H						***********	
DRY DENSITY						7 1	WT 0	F DR	7 501	L			_		_	•
THIS IS AN 17	8-INCH	THREAD					FIEL	D MO1	STU	E CO	MTER	17				\top
PLASTIC LIMIT BY	aFa	000	_													
	N					71			Υ-							_
DETERMINATION		<u> </u>	=	<u> </u>		4-	3		+		1	_		10	2 6	
DISH		ALO	7-	AL	UGP.	+			44	11		ध्य		Y	200	19
WT OF DISH + WET SO				∤	- /		****	-	-			-	******			┼
WT OF DISH + DRY SO		${\rightarrow}$	-		(-		-				.	_		_	-
WT OF MOISTURE		-/-		/	}				+	******				******		
WT OF DISH		4.4	$A \perp$	/1 -	Æ	-		-	1			.	_		-	-
WT OF DRY SOIL	/		- + +			┪-			╄			+				┼—
MOISTURE CONTENT						7			ــــــــــــــــــــــــــــــــــــــ					-		<u> </u>
IQUID LIMIT																
DETERMINATION		1		2		$\overline{\mathcal{M}}$	3							5		
DISM		HLIC	g/L	10	3/	\prod	<u> 24</u>	· _/		C	D	1	1	10		12º
NUMBER OF BLOWS		1	Z	$\overline{7}$		\		$oldsymbol{\perp}$				<u> </u>			2	
WT OF DISH + WET SO	11			$_{\perp}$			7	<u> </u>		-		11	W	<u></u>	OU	红
WT OF DISH + DRY SO	14	$\overline{}$	_		_	١.	$\bot V$	_	1.					25	<u>)</u>	-
WT OF MOISTURE		\triangle		/_	7		Δ		1			_			· 	
WT OF DISH		1.4	7	1	44	١,	<u>1.4</u>	4	╽.				_			١.
WT OF DRY SOIL	/		\bot			$\downarrow \downarrow$		$oldsymbol{-}$	\perp			4				↓
MOISTURE CONTENT			<u>_V</u>			<u>V</u>			<u> </u>			<u>i</u>				
									ι	. I QU	10	LIM	17			
	-			1	• 	10		20	<u> </u>	•	-	-	 		- 40	- T
FLOW CURVE		-	1	Į÷.		STIC	+	L	KI							{-
!						\bot	\perp									CH
				T									1	-[
	•		1:	1:		7		\Box								7
		 	 	╁	-	\dashv	+-	\vdash			<u></u>					4
<u> </u>		-	4	 	├ ─┼	-		┼	 		CL					-
			1:	<u>li</u>				<u> </u>							ot	
				1:												
			1:	1:			\top								M	HA
	· ·	-	 	+÷	1-1	-+-		\pm		M						1
		 -	 - 		 		CL-	_	11/2	ML		OL-			┝╌┩	-+
					$\mathbf{L} \perp \mathbf{l}$			1								
	سيت															
5 7 10	15 7	0 25			50											
5 7 10		0 25			50										···	

٠.

Site EP-01-065, Sample at 4.5 to 5 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-065	Wt soil and dish	223.9
Depth	4.5-5 feet	Dry soil & dish Dish	211.5 102.5

Moisture Content = 11.4

SIEVE ANALYSIS

Dry weight of total sample= 109

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00\$	100.0	37.5
3/4 inch	Ŏ	100.00%	100.0	19.0
3/8 inch	Ŏ	100.00%	100.0	9.5
# 4	Ö	100.00%	100.0	4.8
# 10	0.35	99.68%	99.7	2.0
# 20	1.62	98.514	98.5	0.85
# 40	2.93	97.31%	97.3	0.43
# 60	4.48	95.89%	95.9	0.25
# 100	7.05	93.53%	93.5	0.15
# 200	15 83	85.48%	25 5	0.075

DATE	BY	A= NT_JMMONTSOI	miles!
BORINGEP-Ol	SAMPLE	065 DEPTH_	45-5'
NUMBER OF RINGS	Jaa /	DISH	80
WT. OF RINGS & WET SOIL WT. OF RINGS WT. OF WET SOIL	J	WT. OF DISH & WET SOIL WT. OF DISH & DRY SOIL WT. OF MOISTURE	311.5
FELD DENSITY DRY DENSITY	/	WT. OF DISH WT. OF DRY SOIL	1025
WALL OF T		FELD MOISTURE CONTENT	

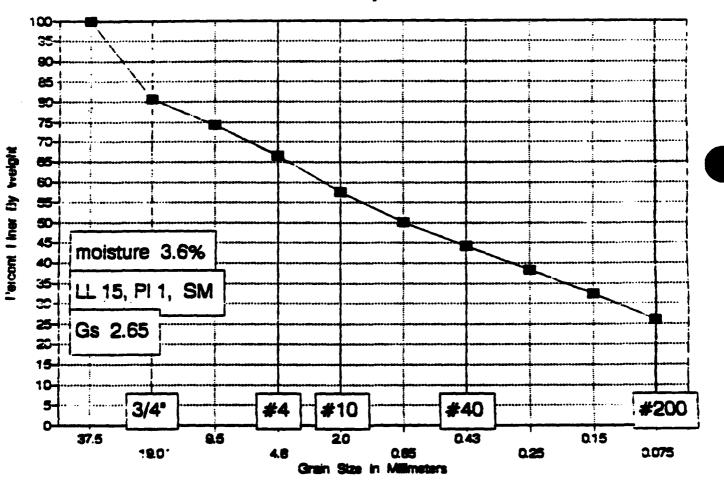
DISH	DIGH	SEVE	WEGHT	ACCUMULATIVE	ACCUMULAT	ME PERCENT
NAMER	WEIGHT	MAMER	RETANED	WEGHT -	RETANED	FINER
		3"				
		1-1/2"				
•		· 3/4°				
		3/8"			·	
		#4		0		·
		PAN				
		TOTAL				

				ACCUM	A	COUNTLATIVE PEN	CENT
DISH NUMBER	DISH	SEVE MANSER	WEDWED	WEGHT	P.M.	ITIAL	TOBL
				REDWID	PEDMED	PHER	PHER
		#10		035		·	
		#20		1.62			
		#40		2.93			
		#60		4.40			!
		#100		7.05			
		#200		2.93 4.40 7.05 15.83			
						,	
		PAN					
		TOTAL					

FIL	ELD DENSIT	Y 81	/	//	/ ·							ÇV.			L _ `	_, ,,	· -		ישב	<u>_</u> .		_!
1	CITAMINATIO	N	Ţ		1	T	-	2	\neg		ETE	1	T 10	`	-		-	1		T		2
Ì	NUMBER OF RE	NGS							\dashv	F	ISH					_				\top		
1	WT OF RINGS	WET SOIL							\exists	F	T 20	F 015	H +	wer	\$01					\top		
ı	WT OF RINGS				*********		*****			7	17 01	015	H +	ORY	501	ī			*******			
ı	WT OF WET SO	[1 -			·				;	T O	#01	STU	t E					_			
Ī	FIELD DENSIT									7	T 0	015	H				*****					
[DRY DENSITY									Ŀ	T 01	DRT	50	L								
PL	THIS I	or LOE	_							_ا	18 40	M01	STU	E C	DMTE	<u> </u>						
ſ	DETERMINATION	*		1		\top		2	T		3		T		4			5		7		6
Ī	DISH		1	1-	7-		46	104	-1										-	十		
	WT OF DISH +	WET SOIL		O.	22)	14.	63												I		
	WT OF DISH +	DRY 501L		5	<u>.</u>	-1	12.	62		_		_	Π									
I.	WT OF MOISTUR	E												******								
	WT OF DISH		_	1.	4	.	1.	生_		_		_	١.				_		_		_	
	WT OF DRY SO		<u>L</u>									_	<u> </u>							╧		
Ĺ	MOISTURE CON	TENT	\sqcup	<u>Ŧ.</u>	81		17	91		Y	= 1	<u>B</u>	<u> </u>			l				1.		
LIG	UID LIMIT	•																	_			
	DETERMINATION	l					:	2			3							5				6
L	DISH		_A	1	12	0		90		AL	.10	16										
	NUMBER OF BLO	ws		3			<u> 2</u>	0			Π											
L	WT OF DISH +	WET SOIL			02		15.	32			0											
	WT OF DISH +	DAT SOIL	_	<u> 7. </u>	<u>26</u>		11.	1 0		2	97	_	Ι.				_		_			
-	WT OF MOISTUR	E				_			_				_			_				4		
-	WT OF DISH		_	1.	<u>4-</u>		4	4_			<u>.4</u>	_	١.			.	_		_	1		
<u> </u>	WT OF ORY SOI			2/2	7	_	7	7	+	~	~	_	₽-							+		
L	MOISTURE CONT	EMI		22	4	21		.15		38	2.()	_	<u> </u>									
_		,			, —			•)	21	•	, ,			L ! P		<u> </u>		0		0
. L	FLOW CUR	IVE			<u> </u>	<u> </u>	<u> </u>	PL	AST	CIT	Υ (CHA	RT									
						;					- 1									C	Н	
Γ			T				1															
33			+		_		+			\neg												
33		\mathbf{Q}	+	-	_	-	÷					_			_	_		-			 	-
² 37			+		-	 	 	\vdash		_	_		_		CL	_			~	<u> </u>		<u> </u>
= 2/ ₂			\bot			<u> </u>	<u> </u>															
36	_ i		K	۱				1 1		ĺ	Ì											
学科		!	4	Z										7						40H (
• 34	- :		+			K	+									-	 	\vdash				
33		<u>_</u>	-		_	λ'	-	1	\dashv	///E	L.N			-ML		OL-	_	ļ -	-	 	-	-
32 L	لسنيا	ىنىپ		ш	لبا	نضيا	<u> </u>									<u> </u>	<u>L</u> .		<u> </u>	<u> </u>	<u> </u>	<u>L_</u>
5	7 4	D 15 Humber of	.70		25 3	•	•0	50														

٠.

Site EP-01-066, Sample at 5 to 5.5 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-066	Wt soil and dish	240.1 235.3
Depth	5-5.5 feet	Dry soil & dish Dish	102.9

Moisture Content = 3.6

SIEVE ANALYSIS

Dry weight of total sample= 132.4

Sieve Size	Weight Retained	Finer	\$ Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	25.6	80.66%	80.7	19.0
3/8 inch	34	74.328	74.3	9.5
# 4	44.4	66.478	66.5	4.8
# 10	56.2	57.55%	57.6	2.0
# 20	66	50.15%	50.2	0.85
# 40	73.8	44.26%	44.3	0.43
# 60	81.7	38.29%	38.3	0.25
# 100	89.5	32.40%	32.4	0.15
± 200	98	25.98%	26.0	0.075

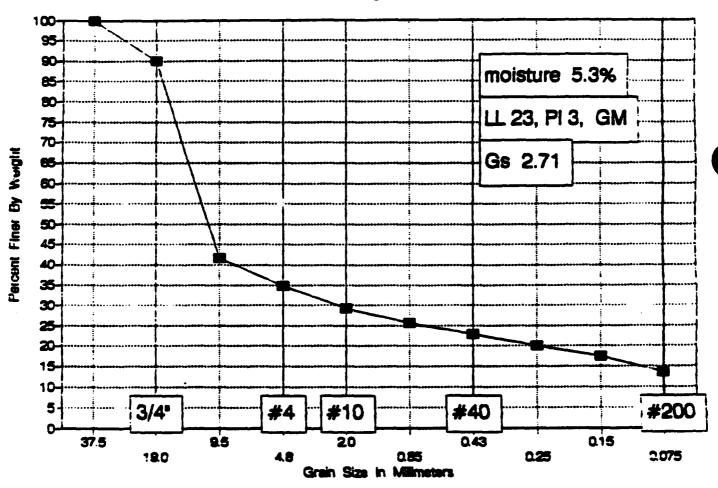
DATE	BY	nt <u>Jim Montbon</u>	nery
BORING EP-01	SAMPLE	<u>066</u> DEPTH _	5-55'
NUMBER OF RINGS	120	DISH	50
WT. OF RINGS & WET SOL	0/	WT. OF DISH & WET SOIL	240.
WT. OF RINGS		WT. OF DISH & DRY SOL	1,235,3
WT. OF WET SOL	/	WT. OF MOISTURE	
FIELD DENSITY	/	WT. OF DISH]]029
DRY DENSITY		WT. OF DRY SOL	
•		FIELD MOISTURE CONTENT	3.6
WASH SIEVE DRY SIE	VE	WEIGHT OF OVEN DRY SOL	(grams)

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEGHT	ACCUMULATE	Æ PERCENT
NAMEER	WEIGHT	MAGER	RETANED	RETAINED	RETAINED	FINER
		3°				
		1-1/2"		0		
•		· 3/4*		25.6		
		3/6*		340		
		#4		44.4		
		PAN		·		
		TOTAL				

		SEVE NAMER		ACCUM	A	CENT	
DISH NUMBER	DISH		WEGHT	WEGHT	PNE	MAL	TOTAL
					REDANCED	RETARKED	POER
		#10		56.2		·	
		#20		66.0			
		#40		73.8			
		#60		81.7			
		#100		89.5			
		#200		98.0			
			·				
		PAN					
		TOTAL					

PLEASURE CALLEGATION SOURCE CALLEGATION SOUR	TIERBERG LIMITS TEST DA			J06 N0		<u>77 17768</u>	77-0177:
PIELD DENSITY	FREED SCASSIFICATION			LOCATI	0.		
DETERMINATION 1 2	LABORATORY CLASSIFICATION			ROS	115 = FP-015	SAMPLE 10/12	OEPTH 5
### OF PINGS OF PINGS ### OF PINGS OF PINGS #### OF PINGS OF PINGS #### OF PINGS OF PINGS #### OF PINGS OF PINGS ##### OF PINGS OF PINGS ####################################	FIELD DENSITY ST						
### OF PINGS OF PINGS ### OF PINGS OF PINGS #### OF PINGS OF PINGS #### OF PINGS OF PINGS #### OF PINGS OF PINGS ##### OF PINGS OF PINGS ####################################	DETERMINATION		7	05750010	2.00		-
## OF SINGS - WET SOIL ## OF NINGS ## OF NINGS ## OF NINGS ## OF NINGS ## OF SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF OSS - WET SOIL ## OF WISTORE ## OF OSS - WET SOIL ## OSS - WET SOIL ## OSS - WET SOIL ## OSS - WET		 		{	AT 10N	 	
TO PRINCE OF SOIL THE OF RESISTED PLASTIC LIMIT OF MEADINGS THE OF DISH SOIL THE OF DISH SOIL THE OF DISH SOIL THE OF DISH SOIL THE OF DISH SOIL THE OF DISH SOIL THE OF DISH SOIL THE OF DISH SOIL THE OF DISH SOIL THE OF DISH SOIL THE OF DISH SOIL THE OF DISH SOIL THE OF DISH SOIL THE OF DISH SOIL THE OF SOIL THE OF DISH SOIL THE OF D		 		 		 	
#** OF MET SOIL #** OF MOISTURE #** OF MOISTURE #** OF MOISTURE #** OF MOISTURE CONTENT ** ***PIST STAND ***PIST SOIL ***	***************************************						
### OF DESITY DET DESITY	******************************						
DRY DENSITY THE S IS AN 1/8-INCH THREAD PLASTIC LIMIT OF DIS. AL (OB. AL (S) 12 13 14 14 14 14 14 14 14							
TRIS IS AN 1/8-INCR TARERO PLASTIC LIMIT BY UFF 9/19/92 DETERMINATION 1 2 3 4 5 6 DISM NOT OF DISM + MET SOIL NOT OF DISM + MET SOIL NOT OF DISM + MET SOIL NOT OF DISM + MET SOIL NOT OF DISM + MET SOIL NOT OF DISM NOT OF DISM NUMBER OF BLOWS NOT OF DISM NUMBER OF BLOWS NOT OF DISM + MET SOIL NOT OF DI					***************************************		
DETERMINATION		CH 770510		J			
DISH				* 12 CB 401	STURE CONTENT		
#** OF DISH * PET SOIL 5.32 17-56 #** #** OF DISH * DRY SOIL 3.67 15-61 #** #** OF DISH 1.4 1.4 #** #** OF DISH 1.4 1.4 #** #** OF DISH 1.4 1.4 #** #** OF DISH 1.4 1.4 #** #** OF DISH 1.4 1.4 #** #** OF DISH * WET SOIL 10.50 9.13 8.10 #** #** OF DISH * WET SOIL 10.50 9.13 8.10 #** #** OF DISH * WET SOIL 10.50 9.13 8.10 #** #** OF DISH * WET SOIL 1.4 1.4 1.4 1.4 #** #** OF DISH OF DISH 1.4 1.4 1.4 1.4 #** #** OF DISTURE CONTENT 1.4.32 1.2.0 15.56 #** #** OF DISH SOIL 1.0 1.	DETERMINATION	1	2	3		\$	6
#** OF DISH * PET SOIL 5.32 17-56 #** #** OF DISH * DRY SOIL 3.67 15-61 #** #** OF DISH 1.4 1.4 #** #** OF DISH 1.4 1.4 #** #** OF DISH 1.4 1.4 #** #** OF DISH 1.4 1.4 #** #** OF DISH 1.4 1.4 #** #** OF DISH * WET SOIL 10.50 9.13 8.10 #** #** OF DISH * WET SOIL 10.50 9.13 8.10 #** #** OF DISH * WET SOIL 10.50 9.13 8.10 #** #** OF DISH * WET SOIL 1.4 1.4 1.4 1.4 #** #** OF DISH OF DISH 1.4 1.4 1.4 1.4 #** #** OF DISTURE CONTENT 1.4.32 1.2.0 15.56 #** #** OF DISH SOIL 1.0 1.	DISM	ALIOD	AL131	1			
#** OF DISS - DRY SOIL 3.67 5.61 #** OF MOISTURE 1.4 1.4 1.4 #** OF MOISTURE CONTENT 3.45 13.70 75 14 1.4	WT OF DISH + WET SOIL			Ī.	1		
#** OF MOISTURE #** #*********************************	WT OF DISH + DRY SOIL				***************************************		-
## OF ORT SOIL ## OF ORT SOIL ## OF ORT SOIL ## OF ORT SOIL DETERMINATION \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	WT OF MOISTURE						
## OF ORT SOIL ## OF ORT SOIL ## OF ORT SOIL ## OF ORT SOIL DETERMINATION \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	WT OF DISH	1.4	1.4				
DETERMINATION 1 2 3 8 5 6 DISH AL 170 AL 5 AL 107 HUMBER OF BLOWS 2B 20 11 WT OF DISH + WET SOIL (0.50 9.13 2.10 WT OF DISH + ORY SOIL (1.00 1.10 1.10 1.10 1.10 1.10 1.10 1.1	WT OF DRY SOIL						
DETERMINATION 1 2 3 8 5 6 DISH AL 170 AL 5 AL 107 HUMBER OF BLOWS 2B 20 11 WT OF DISH + WET SOIL (0.50 9.13 2.10 WT OF DISH + ORY SOIL (1.00 1.10 1.10 1.10 1.10 1.10 1.10 1.1	MOISTURE CONTENT	1345	1370	V= 14-			
DISH	LIQUID LIMIT				<u> </u>		
## OF DISH + WET SOIL 1050 9.13 2.10 ## OF DISH + DRY SOIL 943 9.11 7.25 ## OF DISH 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	DETERMINATION	i	2	3	4	5	6
## 10 F 0 15 M + WET SOIL 10 50 9 13 8 10 10 F 15 M + WET SOIL 10 50 9 13 8 10 10 F 10 15 M + WET SOIL 10 10 10 10 10 10 10 10 10 10 10 10 10	DISH	AL 129	ALS	AL102			
TOF DISH + DRY SOIL WY OF MOISTURE WY OF DRY SOIL WI OF DRY	NUMBER OF BLOWS	29	20				
TOF DISH WY OF DAY SOIL WISTURE CONTENT 14-32 FLOW CURVE PLASTICITY CHART CH CH CH CH CH CH CH CH CH C	WT OF DISH + WET SOIL	10.58	9.13	8.16			
SUMMARY WY OF DENSITY CONTENT 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.	WT OF DISH + DRY SOIL	943	9.11	3:25			
FLOW CURVE PLASTICITY CHART DESCRIPTION OF SOLUTION	WT OF MOISTURE		***************************************				
FLOW CURVE PLASTICITY CHART CM CH CH CH CH CH CH CH CH CH	WT OF DISH	1.4	1.4	1.4			
FLOW CURVE PLASTICITY CHART PLASTICITY CHART PLASTICITY PLASTICITY PLASTICITY PLASTICITY PLASTICITY PLASTICITY PLASTICITY PLASTICITY PLASTICITY PLASTICITY PLASTICITY PLASTICITY PLASTICITY PLA	WT OF DRY SOIL						
FLOW CURVE PLASTICITY CHART CH CH CH CH CH CH CH C	MOISTURE CONTENT	14-32	<u> 15.20</u>	15.56			
FLOW CURVE PLASTICITY CHART CH CH CH CH CH CH CH CH CH C				. 10 20			60 70
SUMMARY DET DENSITY CONTENT LIQUID LINIT PLASTIC LINIT PLASTICITY INDEXT INDEX	FLOW CURVE		PLAS	A			
SUMMARY DRY DENSITY CONTENT LIQUID LINIT PLASTIC LINIT FLASTICITY IDENTIFICATION							CH
SUMMARY Dat DEUS 177 CONTENT LIQUID LIMIT PLASTIC LIMIT PLASTICITY INDEXTIGATION		•	, 	-	- - - -	╅╅┷	1
SUMMARY DAT DENSITY CONTENT LIQUID LIMIT PLASTIC LIMIT FLASTICITY INDEX INDEX						+++	
16 15 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19		1 1 1				$\bot \bot \bot$	
16 15 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19					CL	1.1	1 1
DAT DENSITY CONTENT LIQUID LIMIT PLASTIC LIMIT PLASTICITY INCENTIFICATION							
DAT DENSITY CONTENT LIQUID LIMIT PLASTIC LIMIT PLASTICITY INCENTIFICATION			- - - - - - - - - - 	-{}-	- 	11+	
DAT DENSITY CONTENT LIQUID LIMIT PLASTIC LIMIT PLASTICITY INCENTIFICATION	16		┷┪┷	╅╇	+++		+
DAT DENSITY CONTENT LIQUID LIMIT PLASTIC LIMIT PLASTICITY INCENTIFICATION	15						MH & OH
BUMMARY DAY DENSITY CONTENT LIQUID LINIT PLASTIC LINIT PLASTICITY INCEXTION				100 L Adi 100			
SUMMARY DAY DENSITY CONTENT LIQUID LIMIT PLASTIC LIMIT PLASTICITY INCEXTION	14				ML & OL	111	
SUMMARY DAT DENSITY CONTENT LIQUID LINIT PLASTIC LINIT PLASTICITY IDENTIFICATION	13 5 7 10 15			The Maria			
COMLEMA Transfer Land 19655 Legent Action	NUMBER OF			•			
	SAUTZICH TTI ZHBG TRG	LIQUID LIM	T PLASTIC LI	HIT PLASTICI	1 DENTIFICAT	1 0 W	
				17.	mi		·

Site EP-01-074, Sample at 9.5 to 10 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-074	Wt soil and dish	266.9 258.9
Depth	9.5-10 feet	Dry soil & dish Dish	107.5

Moisture Content = 5.3

SIEVE ANALYSIS

Dry weight of total sample= 151.4

Sieve Size	Weight Retained	Finer	t Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	15.2	89.96	90.0	19.0
3/8 inch	88.2	41.74%	41.7	9.5
# 4	98.6	34.87%	34.9	4.8
# 10	107.1	29.26%	29.3	2.0
# 20	112.5	25.69%	25.7	0.85
# 40	116.7	22.92%	22.9	0.43
# 60	121	20.08%	20.1	0.25
# 100	125	17.44%	17.4	0.15
# 200	131	13.47%	13.5	0.075

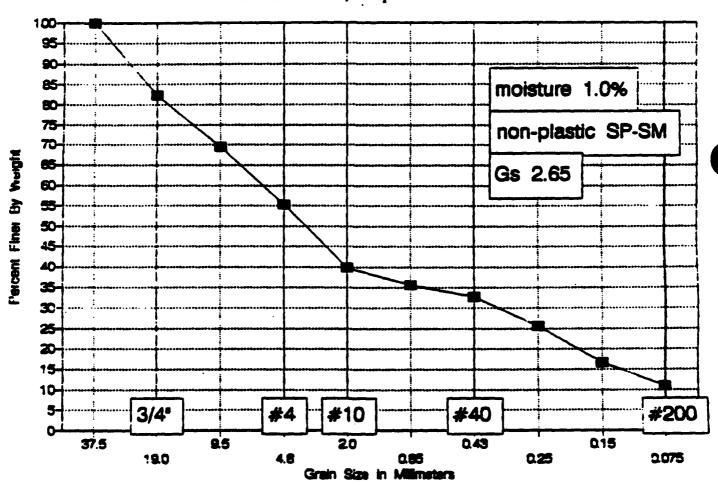
= <u>9 6 92</u> NUMBER <u>- 6061</u> ATION		ent un monteor	nery
ng EP-01	SAMPLE_	<u>074</u> DEPTH _	95-10'
NUMBER OF RINGS	paar	DISH	306
WT. OF RINGS & WET SOIL WT. OF RINGS	0	WT, OF DISH & WET SOIL WT, OF DISH & DRY SOIL	2669
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY	/	WT. OF DISH	1045
DRY DENSITY		FELD MOISTURE CONTENT	52

DISH	DISH	SEVE	WEGHT	ACCUMULATIVE	ACCUMULATI	VE PERCENT	
NAMBER	MEGHT	MARIER	RETANED	WEGHT FETANED	RETAINED	ANER	
		3*					
		1-1/2					
•		· 3/4°		15.2			
		3/8*		88.2			
	·	#4		15.2 88.2 98.6			
		PAN		·			
		TOTAL					

				ACCUM	A	CCUMULATIVE PER	CENT
DISH NUMBER	WEIGHT	SEVE NUMBER	WEGHT RETAINED	WEIGHT	M	MAL	TOTAL
				TE DOCED	RETARED	FINER	THER
		#10		107.1		·	
		#20		112.5			
		#40		116.7			
		#60		1210			
		#100		125.0			
		#200		131.0			
		PAN					
		TOTAL					

	BERG LIMITS									J ()B 14:	0. <u>_</u> T/0*	n E R	- <i>G</i>	20 M	21	0	nt.	5 0	m	e.R
	.U CLASS!FICA!										CAT	I ON									
50	PATORY 11435	FICATION _									80	RINC	1	20	71 s	- AMPL	E	774	1 0	EPTI	9
F	IELD DENSIT	Y 87	/	/ ·											•	_		- '-	•-		
	DETERMINATIO	N		:	\Box		2			DETE	RMIN	AT 10	M				1				2
	NUMBER OF RI	NGS) 15H											
	WT OF RINGS	+ WET SOIL						\Box		7 0	F DI:	5H +	WET	501	ı				T		
	WT OF RINGS									T O	F 91	5H +	DRY	501	L				\top		
	WT OF WET SO	11.			`			- [7	17 0	F MQ	I STU	RE			_		_	1	-	
	FIELD DENSIT	7		-	\neg	_			7	rT 0	F 01	SH					*****	-	1		
	DRY DENSITY				$\neg \vdash$				7	3 01	F DR	7 50	I L			-		_			
	THIS	S AN 1/8-INC	THRE	AD -				_	,	IEL	MO!	STU	RE C	DUTE	uT	_			1		
Pi	LASTIC LIMIT	r or LAF.	7,19,	22					_									_			
	DETERMINATIO				T		?	T		3		Т		-	1		5,		7		6
	DISH		10	3		AL	13	3		-		T			寸				1		
	WT OF DISH +	WET SOIL		101			63	_				T			寸		_		十		
	WT OF DISH +	DRY SOIL		立		9.0					******	7				******	*****		1		
	WT OF MOISTU	RE	-								_	ì	_		.	_		_	ì		
	WT OF DISH		1	4_		F	4	_	*******	******	*******	†			\neg			******	1		
	WT OF DRY SO	11.			1	<u> </u>		-	_		-	1			·	_		_	-	_	
	MOISTURE CON	TENT	19.1	51	1	20	1	<u>z</u> †	V	=7	X)	十			一	_			十		
LI	QUID LIMIT			71		<u></u>					<u> </u>	1_						-			
;	DETERMINATION	 -			T		<u> </u>	\neg		3		T			T	_	5		Т		6
	DISH		AL	.7:	7	AL	12	2	1	15		1	_		コ		-		7		
	NUMBER OF BL	ows		29			5			9		十	-		寸				十		
	WT OF DISH +	WET SOIL		7		12		十		1.5	1	t			一				十		
	WT OF DISH +	DRY SOIL	4	105			00			民		1			7		~~~~		1		
	WT OF MOISTUR	E	يتيخنه	-]		<u> </u>	1			(-	'	سبت			_		_	1		
	WT OF DISH		ľ	4		T	4	_		4		1			7				1		
	WT OF DRY SOL	L									-	'			·	_		_	l	_	
	MOISTURE CONT	THE	22	49		23	39	江	24	-5	31								Ī		
													I QU	110	LIM	HT					
[FLOW CU	RVE	$\overline{}$			1:			ICIT	2	CHA			-			_			<u>, x</u>	
Ì		-	+-		+	+	-							-					-	-	\dashv
•	+	<u>-</u>	┼-	_	 	┿											_				-
l			1_			<u> </u>															
		:				<u>L</u> :															
_ [CL							
_[1																
4			T																		
25, 24 23		*	+-		- +-	++	┢╌	-				_			_	-	\vdash	H			-
72	•	<u> </u>	╀		+	 		_							_	_	_			0	\rightarrow
22	•	t		D		<u> </u>			1110	L-N	11/1	111		ايا	l OL-						
- 1		11111111	1		1 1	 						\supset	-								l
21 5	•	0 15		25 X		0	50														<u> </u>
SU	MMARY	NUMBER OF	9 L U W	3										•							
ſ	DAY DENSITY	MOISTURE THETMOS			LIMIT	PLAS	TIC	LIMI	7	LAS	TIEI	11	1 954	TIF	CAT	04			*		
ļ				22		7	20				3		1	Y		1					
•		•		- 1							_		. 1	1							

Site EP-01-079, Sample at 0 to 1 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-079	Wt soil and dish Dry soil & dish	296.6 294.7
Depth	0-l feet	Dish	108.9

Moisture Content = 1.0

SIEVE ANALYSIS

Dry weight of total sample= 185.8

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00\$	100.0	37.5
3/4 inch	32.7	82.40%	82.4	19.0
3/8 inch	56.8	69.43	69.4	9.5
# 4	82.9	55.38%	55.4	4.8
# 10	111.7	39.88%	39.9	2.0
# 20	119.7	. 35.58%	35.6	0.85
# 40	125.1	32.67%	32.7	0.43
# 60	138.2	25.62%	25.6	0.25
# 100	154.7	16.74%	16.7	0.15
# 200	166 6	10.878	10.9	0.075

DATE 9/10/92		1F		
JOB NUMBER	- OWNER/CL	ENT JIM Montba	ncry	
LOCATION			,	
BORING EP-01	SAMPLE	079 DEPTH _	0-1'	
				•
NUMBER OF RINGS	Thav	DISH	1 201	
WT. OF RINGS & WET SOL	U	WT. OF DISH & WET SOIL	296.6	
WT. OF RINGS	/	WT. OF DISH & DRY SOIL	2947	
WT. OF WET SOL	/	WT. OF MOISTURE		
FIELD DENSITY		WT. OF DISH	1 106.9	
DOV DOJETTY	17	WT OF DRY SOR	1	

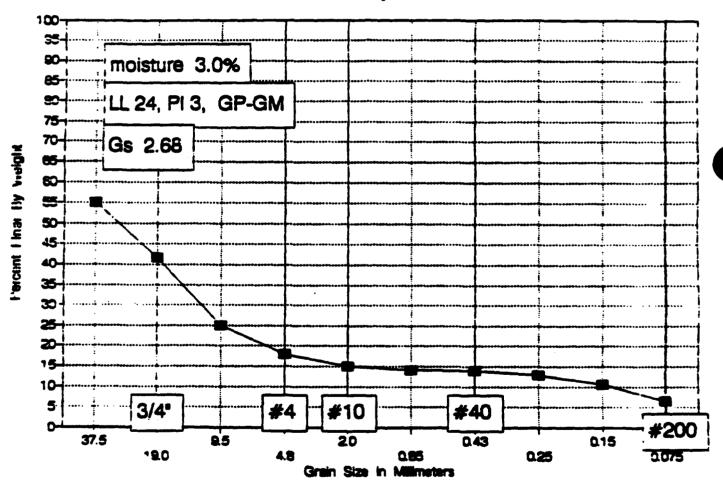
WASH SIEVE	DRY SIEVE	WEIGHT OF OVEN DRY SOL	(grams)
------------	-----------	------------------------	---------

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE	ACCUMALATI	VE PERCENT
NUMBER	WEGHT	NUMBER	RETANED	WEIGHT	RETAINED	FINER
		3-				
		1-1/2				
		3/4		32.7		
		3/8"		56.8		
	·	#4		82.9		
		PAN		·		
		TOTAL				

				ACCUM. WEIGHT	A	CENT	
DISH NUMBER	DISH WEIGHT	SEVE NUMBER	WEIGHT		PARTIAL		TOTAL
				REDANED	RETMED	PN/ER	ner .
		#10		111.7		·	
		#20		119.7			
		#40		125.1			
		#60		138.2			
		#100		154.7			
		#200		164.7			
		PAN					
		TOTAL					

- · · - ·	²¹								• • •							017	
LABORATORY CLASSIF	ICATION _	. .					to	= 0 0		EP-	715	AMPI	, ,	77	7 05	PTH	7
FIELD DENSITY	87	-11						50*	170	7. 7	יים		• - `	2 L .	2 00	•	. ~
DETERMINATION		•				٦ 1	DETER	MINA	T 104				1		1	2	_
NUMBER OF RING	S		+			1 1	DISH								╅		_
WT OF RINGS +			╅			1 1		DIS	H + 1	ET SO	11				╁		
WT OF RINGS	-	***********				1				RY 50	-		······································		+-		_
WT OF WET SOIL			ł			11	WT Of					-			Į		_
			+-			1 1	WT 01		-						┽		
FIELD DENSITY			+		-	∄ l	WT 0F					-		_	1		_
DRY DENSITY	AN 1/8-INCH	THREAD -				<u> </u>				CONT					+		_
PLASTIC LIMIT															_1		_
DETERMINATION		1	不	2		Y	3						5			6	_
DISH		AL121	$/ \square$	AL	100												
WT OF DISH + W	ET SOIL	\sqrt{Z}		7			10070070000	CC	VL	[]	\bigcirc	<u> </u>	1.1/	121	410		
WT OF DISH + D	RY SOIL	ΔZ		$\sum_{i=1}^{n}$	_ `			-	_		_			_			_
WT OF MOISTURE		$\overline{\Lambda}$		X													
WT OF DISH		1.4		\mathcal{L}	Ł	Ι.		_						_	Τ.		
WT OF DRY SOIL	/	$\overline{}$			$\overline{\mathcal{I}}$										<u> </u>		
MOISTURE CONTE	ит		\prod		\overline{I}	Γ											
LIQUID LIMIT			•								·			_			
DETERMINATION		1	水	2		小	3			4			5		T	6	_
BISH		JOA!		1	07	\mathbf{I}	YLE			<u> </u>	Z		7	H	bl	1	_
NUMBER OF BLOW	\$	T		abla	\mathcal{I}							20	es	u	10		
WT OF DISH + W	ET SOIL	$\overline{}$		\mathcal{I}							5	DU	ارر	C	V	1+	_
WT OF DISH + D	RT SOIL		\top	X			X						(2		Τ.		
WT OF MOISTURE		\overline{ZX}		Z	\sum_{-}		\mathcal{L}										
WT OF DISH		1.4			Z_{-}	Π.	1.4	7						_			
WT OF DRY SOIL		`	MZ		\mathcal{L}	$\perp Z$	_	Δ									
MOISTURE CONTE	NT /		V			V		$\overline{}$									_
										9010			•			_	
FLOW CURY	/E		Ţ		PLA	FTIC	אַדון		NT NT	T	Ť		0			70	-
L 1 "			1	•		十			7	\neg	1				C)		_
,			•	! • _!	-		4-4	-	+		+-	├			Ť	' ,	7
		╂╌╂╌┨	-			ł	1 1			- 1	1	1				X	
						\perp		\rightarrow	-		+-	τ					
						$\frac{1}{1}$									1	L	_
				+		+				C			-,	11/2	4	+	_
						+				C				2.50	4	+	
	•									C				2.10	4		
	•									C			-				
	•									c	/					OH	
	•									c			, 			1 3 5 1	
							CL-M	_		THE G	0				•	ОН	
							CL-N			THE O	/				· · · · · · · · · · · · · · · · · · ·	OH.	
5 7 10	; ; ;	70 25 K					CL-N	_		THE G	/					ОН	
\$ 7 10	; ; ;	. 25 J	1111		TIC L		PLAS	_		-NIL G	01					COH	

Site EP-01-084, Sample at 4.5 to 5 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-084	Wt soil and dish Dry soil & dish	339.3 332.5
Depth	4.5-5 feet	Dish	107.4

Moisture Content = 3.0

SIEVE ANALYSIS

Dry weight of total sample= 225.1

Sieve Size	Weight Retained	Finer	t Finer	Sieve opening mm
1.5 inch	101.6	54.86%	54.9	37.5
3/4 inch	131.2	41.71%	41.7	19.0
3/8 inch	168.9	24.97%	25.0	9.5
# 4	184.7	17.95%	17.9	4.8
# 10	191.3	15.02%	15.0	2.0
# 20	193.2	14.178	14.2	0.85
# 40	193.8	13.90%	13.9	0.43
# 60	195.9	12.978	13.0	0.25
# 100	201.2	10.62%	10.6	0.15
# 200	210 3	6.578	6.6	0.075

DATE 9/14/92	BY LAF	
JOB NUMBER 6061	OWNER/CLENT_UM	monitromery
LOCATION		•
BORING EP-01	SAMPLE 084	DEPTH 45-5'

NUMBER OF RINGS	1000	2	DISH	311
WT. OF RINGS & WET SOIL			WT. OF DISH & WET SOIL	339.3
WT. OF RINGS			WT. OF DISH & DRY SOL	332.5
WT. OF WET SOL			WT. OF MOISTURE]
FIELD DENSITY			WT. OF DISH	1 1074
DRY DENSITY			WT. OF DRY SOIL	
			FELD MOISTURE CONTENT	1.30

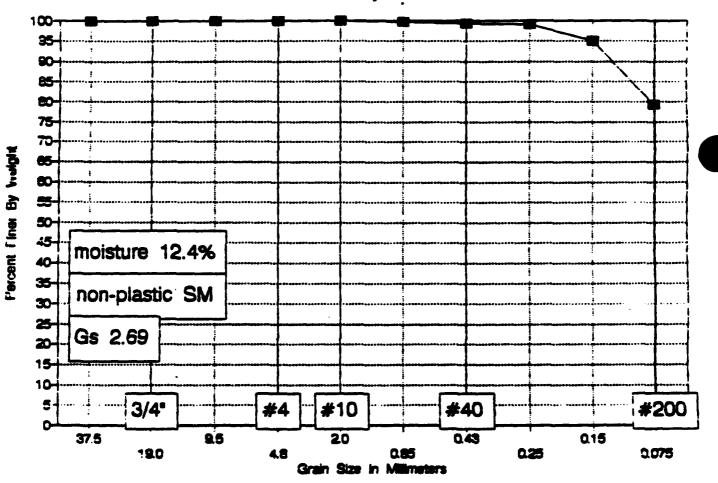
WASH SIEVE ______ DRY SIEVE ______ WEIGHT OF OVEN DRY SOL ______ (grams)

DISH	DISH DISH	SEVE	WEGHT	ACCUMULATIVE WEIGHT	ACCUMUL	TIVE PERCENT
NUMBER	WEIGHT	NAMER	RETANED	RETAINED	RETAINED	FINER
		3"		0		
		1-1/2"		1016		
		3/4		131-2		
		3/8*		168.9		
		#4		184.7		
		PAN		·		
		TOTAL				

				ACCUM	A	CCUMULATIVE PER	CENT				
DISH NUMBER	WEIGHT		SEVE			MANGER	RETWEED	MEGHT	M	TIAL.	TOTAL
				REPARED	RETANED	FNER	PAGR				
		#10		19-3		·					
		#20	·	193.2							
		#40		193-8							
		#60		195.9							
		#100		29.2							
		#200		20.3							
		i									
		PAN									
		TOTAL									

LERBERG LIMITS TI	_							ال م	08 #0 Lieni			<u>- 6</u>	m	71 1 P	Y	or	1+/	52	m
MELL SLASSIFICATION									D CATI				// ·						
18091TOFY CLASSIFIC	±1104 _										Ei	20	1154	101 (102	1 0	COTL	4
FIELD DENSITY	37	//	· - ·						801	* 1 * 0	إسكا	ب	13=	•••	٠ پ		·_ ·	E + 1 +	-
DETERMINATION			:	\Box		2	7	DETE	RHINA	TION			$\neg r$		1		Τ		2
NUMBER OF RINGS							7	DISH					+				+		
WT OF RINGS + WE	T SOIL			$\neg \vdash$			٦.	WT S	F DIS	H -	WET	SOIL	+				╅		
WT OF RINGS		*********	******		******	*******			F DIS								┰		
WT OF WET SOIL				٠	_				F MO!	-			_			_			
FIELD DENSITY					_		-	~	F 013	•••••							+-	******	
DRY DENSITY				╅			┥ :	~	F DRY	*			-	_			ł	-	
THIS IS A	N 1/B-INCI	THRE	AD -				_		D #01			1756	, 		—		┿		
PLASTIC LIMIT 8														· ~		٠	<u>.</u>		70
DETERMINATION	T	1	1	T		?		3	- 4	7 '	UII.	<u></u>	7	<u> </u>	5	/L	Ť	<u>س</u> رن	6
DISM		AL	OX)] .	AL	93						_							
WT OF DISH + WET	SOIL		$\overline{\omega}$		03	_							T				T		
WT OF DISH + DRY	SOIL	****	03	*****		23	T			T			7				T		_
WT OF MOISTURE										<u> </u>								_	
WT OF DISH],	4-	T	<u> </u>	4	T										1		
WT OF DRY SOIL										T.						_	1		_
MOISTURE CONTENT		21.	55	5	21.	00		7=1	21								Τ		
LIQUID LIMIT		_							K	- 4	ab	Le	fuc	to	Ľ	W	h2	mo	ist
DETERMINATION		1		Λ		2	Λ	3			4				5				6
DISM		A -	4		46	27/		HUL	19		(m	U	L	1	DL	16	h	
NUMBER OF BLOWS		2		1	\overline{I}				\mathcal{I}			Cal	ar	וח	X	٤	#	2	
WT OF DISH + WET	501 L	9.9	29		$\overline{}$			Δ				6	26:	Ł			北	•	
WT OF DISH + DRY	SOIL	<u>8:</u>	<u> 25</u>	1	\bot	7		_X],	_	
WT OF MOISTURE			****			$\overline{}$			7_		يا		-]}						_
WT OF DISH		4	<u>4</u>		<u>/</u>	<u>4</u> .\	1 /	4.4	7	١.			=[[.0	18	XZ	3 .	24	<u>) </u>
WT OF DRY SOIL		·	<u> </u>	/_			\mathcal{V}		$oldsymbol{\perp}$	<u> </u>			=[2	4	<u>ろ</u>	<u> </u>	┺		
MOISTURE CONTENT		13	94	<u>- V</u>			W_						_				1_		_
						0	10	٠.			1 QU	0	LIMI			•		7	
FLOW CURVE		T				1		HTY:	CHA	RT	1	Ť		- 20		Ĭ			
		1					_	1	† †	寸	寸		十	寸	7		C	7	
	 -	+-	-		 		$\overline{}$	+-	\vdash	-+	+	↤	\dashv	十			\dashv		
		+-	-	-	 i	╂┈┤	-+						-+	-+					
		1			₽÷	Ш		1_	igsquare				\bot]				
									$ \ $			CL		T	•				
1 : 1		_		:	1:		_		П			\dashv	1	丁					
		1				} }	- 	+-	+-		\dashv	+	-)	4		\vdash		\vdash	-
	:	-	-	-				1		\dashv		_	4	-+			Ь	<u> </u>	
									, ,		- 1			- 1				_	.
				-							_							5	<u> </u>
							72	2C1 - 1			1	+	\dashv	+					<u> </u>
							7/	(CL-I	41-44		ML	•)) 						
		_	11	1111	÷	90	7/	(CL-I			ML .	•	DL						
5 7 10	15	_		1111	÷	50	7/	(CL-I		<i>ya</i>	ML	•	OL-				6 14		
SUMMARY	15	SFOR:	S	1111	40	50		- Pia		2	ML						# C		

Site EP-01-090, Sample at 5 to 5.5 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-090	Wt soil and dish Dry soil & dish	214.6 203.1
Depth	5-5.5 feet	Dry soil a dish	110.5

Moisture Content = 12.4

SIEVE ANALYSIS

Dry weight of total sample= 92.6

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0.1	99.89	99.9	2.0
# 20	0.2	99.78%	99.8	0.85
# 40	0.6	99.35%	99.4	0.43
# 60	0.9	99.03%	99.0	0.25
# 100	4.6	95.03%	95.0	0.15
# 200	19 1	79 378	79.4	0.075

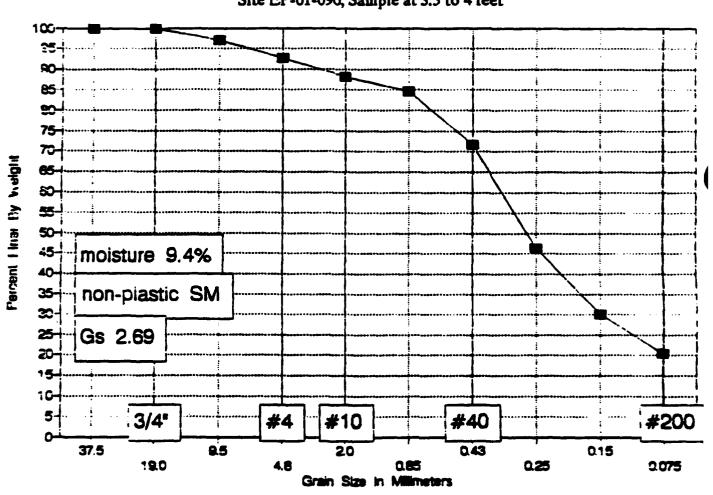
DATE 9/10/92 JOB NUMBER 600/	DI L44	IF on Jmmont-or	neev
LOCATION BORINGEP-01	SAMPLE	<u> </u>	5-55'
NUMBER OF RINGS WT. OF RINGS & WET SOIL WT. OF RINGS	max	DISH WT. OF DISH & WET SOIL WT. OF DISH & DRY SOIL	123 214-6 203.1
WT. OF WET SOL. FIELD DENSITY DRY DENSITY		WT. OF MOISTURE WT. OF DISH WT. OF DRY SOIL	1105
WASH SEVE DRY SE	VE	FIELD MOISTURE CONTENT WEIGHT OF OVEN DRY SOL	124 (orans

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULATIV	E PERCENT
NAMER	WEGHT	MAGER	RETANED	RETAINED	RETAINED	PINER
		3*				
	·	1-1/2"				
		· 3/4°				
		3/8"				
		#4		0		
		PAN		·		
		TOTAL				

				ACCUM.		ACCUMALATIVE PERCENT				
DISH DISH WEIGHT	SEVE NAMER	WEIGHT RETAINED	WEIGHT	PAR	TAL.	TOTAL				
				TE THE	REDANCED	ANER	FNER			
		#10				·				
		#20		Ġ.						
		#40		.60						
		#60		.9						
		#100		4.6						
		#200		19,1						
		PAN								
		TOTAL				•				

	ERG LIMITS										5 F 10	6 NI. IENT/	ER	J	m	26	ho	ורו	E	YY
			:																	
1450=	ATOFY CLASS	FICATION										8081	NG E	[-(21 s4	MPL	E Y	790	ه _(EPT
FIE	LD DENSIT	PY 57		-//	·										-		•		•	
	DETERMINATIO	N		1				2			ETE	MINAT	04				1		T	
	NUMBER OF RI	NGS									15#									
	WT OF RINGS	+ WET 501									1C T1	DISH	- 461	501	ı					
	WT OF RINGS					Т				•	T 01	015#	- 081	501	r				T	
	WT OF WET SO)							1	1	T 0	M015	URE			-		_		
	FIELD DENSIT	Y								1	T 01	DISH	******							
Ī	DRY DENSITY		\top			7			7	-	T OF	DRY :	OIL			_		_		
PL	THIS	T BY 1/8-	_							•	i E LO	MO157	URE C	ONTE	MT					
Γ	DETERMINATIO	N	$\overline{\Lambda}$	1		$\overline{\Lambda}$	7	?	7		3			4		-	ā,		T	
<u> </u>	DISH		+	AL.	129	$^{\prime \uparrow }$	Al	万	/			11	110	111	7- 1	iD			0/1	त
	WT OF DISH +	WET SOIL	\top	Y		+	۲.,	1	1			***			1-	ホ	1	<u> </u>	7	<u>,, </u>
"	WT OF DISH +	DRY SOIL	_	/_	/	 	-/	7		*****				*********			/		+	
1.	WT OF MOISTU		-	\rightarrow	$\overline{}$		X	_				-			•			_		-
	WT OF DISH			1.4	X	1	1	4	_					•••••	_				+-	
	WT OF DRY SO			/	7		/"	十		_		-			.	-		_		_
	MOISTURE CON	TENT	7			7			abla						_				+	_
L	UID LIMIT		V		-	11/			<u> </u>				-							
_	DETERMINATIO		Λ	1		木			71		3			-	Ţ		5		, -	
<u> </u>	DISH		+	AL.		4	AL.	_	(+)	<u> </u>		\mathcal{A}				1 .		<u></u>	100	_
⊢	NUMBER OF BL		+-`	***	117	+-	The second	7	/ -	妆		+		7/	11			7	7	
<u> </u>	WT OF DISH +		\dashv	+	+	┿	/ -	/	\dashv	+	- 7	- 			4					_
-				—∕-	/	+-	\longrightarrow	(₩			1/	co	ν,	4	20	40	
	WT OF DISH +		{	-/	/-		/	+	1	_	X	-	-		• [L		21		
<u> </u>	WT OF DISH	····		/ -	//	┪—	+	$\frac{1}{\sqrt{\kappa}}$		/	- y								╂┈	
<u> </u>	WT OF DRY SO		\dashv ,	نعلسار	4	1/	- -	4\		,4	.4	1 /			.	_		_		
⊢	MOISTURE CONT		+/			₩			$\frac{1}{\sqrt{F}}$			\rightarrow							+-	
	231310HE COM		<u> </u>			<u> Y</u>			Ņ			<u></u>					•			
								0	10		20)	L I Q1		L I M		0	•	<u> </u>	
L	FLOW CUI	RVE						PL	ASTI	CIT	Υ .	HAR	<u> </u>							
L	1					•					.								C	H
	1									T			T							
 	1					+	1	\vdash	\vdash	_	\neg	_	+-							~
\vdash	······································	+			-	+	├ ÷		-	-			+	-					4	
L	<u> </u>						<u> </u>	<u>L</u> .	\sqcup	_	\Box			CL				Z		
-	;	;				:	1:	Į i	1	-										
	•					1														
┝	1	-				+	1					_	+-	1					├── #H 4	. 0
\vdash		<u> </u>			-		 		\vdash					-	-					
L	<u> </u>				\rightarrow	<u>:</u>	<u> </u>			Z/C	L-M		-	i La	OL-					
L	1 1 1 1		ш			1111						7		L				<u>.</u>		
SUM		0 15 NUMBER (5 30	-	10	50												
۲.	AT DENSITY	#315TU	1	1 100	10 L1	H17		716	LIMIT	1		TEITT	1.00		CATI	اس				
- -`		CONTEN	T	00			1,,,,,			1		DEX	1.06	K						

Site EP-01-096, Sample at 3.5 to 4 feet



James M. Montgomery-* P.O. 2942-0130

Site ID	EP-01-096	Wt soil and dish Dry soil & dish	171.8 166.5
Depth	3.5-4 feet	Dish	110

Moisture Content = 9.4

SIEVE ANALYSIS

Dry weight of total sample= 56.5

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00\$	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	1.6	97.178	97.2	9.5
# 4	4.2	92.57%	92.6	4.8
# 10	6.7	88.14%	88.1	2.0
# 20	8.7	84.60%	84.6	0.85
# 40	16	71.68%	71.7	0.43
# 60	30.3	46.378	46.4	0.25
	39.6	29.91%	29.9	0.15
# 100	45	20.35%	20.4	0.075

B NUMBER 606	OWNER/CL	ENT_UMMONTSOM	ery
CATION PRINGEP-01	SAMPLE _	096 DEPTH _	35-4'
NUMBER OF RINGS	baar	DISH	205
WT. OF RINGS & WET SOL	0/	WT. OF DISH & WET SOIL	171.8
WT. OF RINGS		WT. OF DISH & DRY SOL	1665
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	1100
	† / – – – – – – – – – – – – – – – – – – 		7
DRY DENSITY	V	WT. OF DRY SOL	ł :

WASH SIEVE	DRY SEVE	WEIGHT OF OVEN DRY SOIL	(grams)

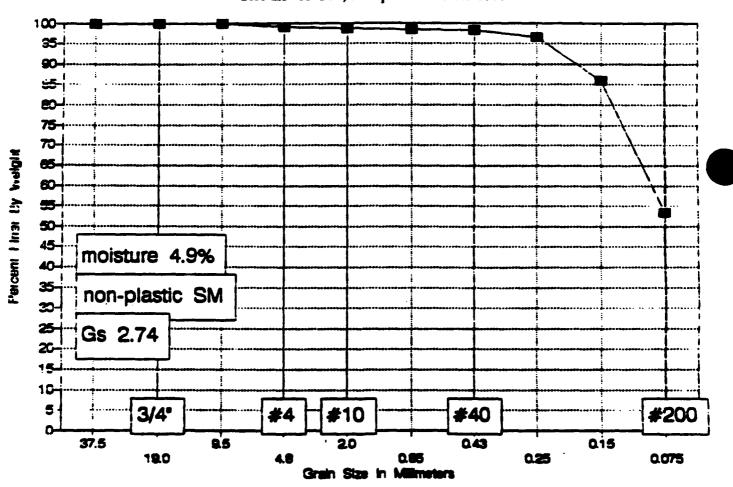
DISH	DISH	SEVE	WEGHT	ACCUMULATIVE	ACCUMULATIVE PERCENT				
NUMBER	WEGHT	NAMER	RETAINED	WEGHT RETANED	RETAINED	FINER			
		3"							
	·	1-1/2"							
•		· 3/4°		0					
		3/8*		1.60					
	·	#4	· ·	4,2					
		PAN							
		TOTAL							

		SEVE MASSR		ACCUM	ACCUMULATIVE PERCENT					
DISH			WEIGHT	WEIGHT	PAR	TRAL	TOTAL			
				re mes	RETAINED	PNER	MER			
		#10		6.7		•				
		#20		8.7						
		#40		160						
		#60		30.3						
		#100		291						
		#200	·	45.0						
						·				
		PAN								
		TOTAL								

EED 01410 F 04710W					LOCAT	10N			Coc	
BOPATORY 11-381F1C4TION _	. .				50	RING	P-01	SAMPLE	يرون ،	2 DEP
FIELD DENSITY BY	//					-				-
DETERMINATION	1		:] [DETERMIN	ATION		T	:	
NUMBER OF RINGS					D 15H					
WT OF RINGS + WET SOIL					WT OF DI	SH + WE	T SOIL			
WT OF RINGS					NT OF 01	5H + DR	7 \$01L			
WT OF WET SOIL					NT OF MO	ISTURE				_
FIELD DENSITY					WT OF 01	SH				
DRY DENSITY] [:	IT OF DR	7 501L				
THIS IS AN 1/8-INC	H THREAD -				FIELD MO	STURE	CONTENT			
PLASTIC LIMIT BY WE	9992									
DETERMINATION	1 /	$\overline{\Lambda}$	2	1	3	7	4	T	5.	1
DISH	A-4/		04	1	(0	TIN	not	141	1200	d –
WT OF DISH + WET SOIL	-\\	1-4		1		1-1	• • • •	+		1
WT OF DISH + DRY SOIL		† \	$\overline{}$		*********	1		1	••••••	1
WT OF WOISTURE	$\overline{}$		X	-		-		-		-
WT OF DISH	[1.4]	1 /	4	1	************					-
WT OF DRY SOIL	\\	1		-		-		-		~
MOISTURE CONTENT	/ 	V		1				1		
LIQUID LIMIT									<u> </u>	
DETERMINATION	1 /	\	2 /	T	3	, 	4	_	5	
DISH	ALES!		-8/	16		1-		4/	not	1/20
NUMBER OF BLOWS	Aces!	1 4	<u> </u>	+ *	''' /	 			enua	
WT OF DISH + WET SOIL	-\/-	/ 		 \		+	4		00	
WT OF DISH + DRY SOIL	X	·	Χ	 	\/	 	<i>V</i>	_	Z5)	7
WT OF MOISTURE	/\	17	<u> </u>	-	/_	-		-		-
WT OF DISH	/1.4	1	41		.4	1		1		
WT OF DRY SOIL			<u> </u>	/		-		-		-
MOISTURE CONTENT	/	/		V						
	-					LIO	UID L	1 H I T		
FLOW CURVE		: 1:	1-4	10	20	30	40	<u> </u>		1
FLOW CURVE	+++	- -	+	- - 	TY CHA	-	+	+-		
		: :								СН
								1		
		: :						77		1
		: :	+++	+	 	 	CL	╅	12.16	
1 1 1 1		\vdots	+-+			 	+	+-1	1	┼-┼-
		: :	11			$\vdash \vdash$	↓ ↓	44		$\sqcup \downarrow$
		7	. í	1				1		
								1		MH & C
			++			1		1 1		
			++				4			
		+ + +		1115	L-ML//		iL a o			
	79 25 30			<i>u</i> (3	L-ML		IL O	-		

NP

Site EP-01-100, Sample at 5 to 5.5 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-100	Wt soil and dish	203.5 199.1
Depth	5-5.5 feet	Dry soil & dish Dish	110.1

Moisture Content = 4.9

SIEVE ANALYSIS

Dry weight of total sample= 89

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0.98	98.90%	98.9	4.8
# 10	1.24	98.61%	98.6	2.0
# 20	1.35	98.48%	98.5	0.85
# 40	1.57	98.24%	98.2	0.43
# 60	3.08	96.54%	96.5	0.25
# 100	12.51	85.94%	85.9	0.15
# 200	41 38	53.51%	53.5	0.075

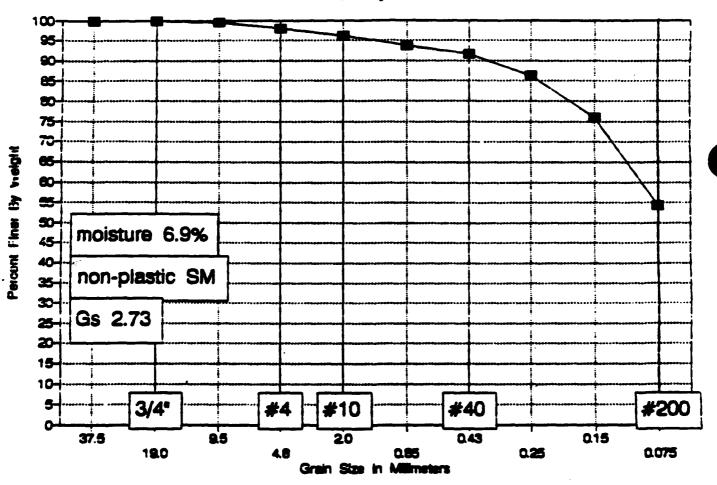
JOB NUMBER		MTC	rnery
BORING EP-01	SAMPLE	ICC DEPTH _	5-5.5'
NUMBER OF RINGS	213	DISH	20+
WT. OF RINGS & WET SOIL WT. OF RINGS	,	WT. OF DISH & WET SOIL WT. OF DISH & DRY SOIL	1.203.5.
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY DRY DENSITY	/	WT. OF DISH WT. OF DRY SOL	110.(
	· · · · · · · · · · · · · · · · · · ·	FELD MOISTURE CONTENT	4.9
WASH SIEVE DRY SIE	VE	_ WEIGHT OF OVEN DRY SOL	(grams)

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULATI	VE PERCENT
NAMBER	WEGHT	NAMER	RETAINED	RETAINED	RETAINED	FINER
		3.				
	·	1-1/2				
		· 3/4*				
		3/6-		0		
		#4		0.98		
		PAN		·		
		TOTAL			·	

				ACCUM.	A	CUMULATIVE PER	CENT
OISH NAMBER	WEIGHT	SEVE NLMBER	WEGAT	WEIGHT	PAR	TAL	TOTAL
				'Esteb	METANED	ANGR.	PNER
		#10		1.24		·	
		#20		1.35			
		#40		1.57			
		#60		3.08			
		#100		12.51			
		#200		41.30			
		PAN					
		TOTAL				•	

ELU SCAISTERSATION	_		LOCATI			<i>-</i>
BORATORY ILASSIFICATION			80 6	ING EP-DI	SAMPLE JQQ	_ DEPTH ==
FIELD DENSITY ST	•//					
DETERMINATION	1	2	DETERMINA	TION	1	2
NUMBER OF RINGS			DISM			
WT OF RINGS + WET SOIL			WT OF DIS	H + WET SOIL		
WT OF RINGS			WT OF DIS	H + DRY SOIL		
WT OF WET SOIL			WT OF MOI	STURE		
FIELD DEMSITY			WT OF DIS	n		
DRY DENSITY		1	WT OF DRY	SOIL		
THIS IS AN 1/8-IN			FIELD MOT	STURE CONTENT	<u> </u>	
PLASTIC LIMIT BY LAE.	0202					
DETERMINATION	1	2	3		5.	7 6
DISH	4,105	A-7-	di	Ficult	to tr	read
WT OF DISH + WET SOIL	11.13	10.72	I			
WT OF DISH + DRY SOIL	9.51	9.16				
W? OF MOISTURE						
WT OF DISH	1.4	1.4				
WY OF DRY SOIL						
MOISTURE CONTENT	19.98	20.10	X=20	<u> </u>		
LIQUID LIMIT						
DETERMINATION	1	. 2	3		5	1
DISH	AL122/	AL 113/	1 ALIB/	cor	al not c	*F
NUMBER OF BLOWS	\ /	1		a	Teavet	e
WT OF DISH + WET SOIL				h.c	w cour	H
WT OF DISH + DRY SOIL	Δ	Y				
WT OF MOISTURE	Δ					
WT OF DISH	<u> 1.4</u>	1.4	1.4			
WT OF DRY SOIL	\leftarrow	/	1/		ļ	<u> </u>
MOISTURE CONTENT	/	<u> </u>	<u> </u>	<u> </u>		
				LIQUID LI	HIT	
			10 20		90	10 70
FLOW CURVE			STICITY CHAI	~	++-	├ ┼┼┼
						CH
				CL		
		++++	- 			
	- - - -	- - - 			14	╂╌╂╌╂
					1	++++
						MH & OH
			/// GL. ML///			
			CL-ML/	ML & OL	·† † †	
5 7 10 15	.70 25 30	40 50				الللللل
	BLOWS					

Site EP-01-104, Sample at 3 to 4 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-104	Wt soil and dish	163.5
Depth	3-4 feet	Dry soil & dish Dish	159.6 102.8

Moisture Content = 6.9

SIEVE ANALYSIS

Dry weight of total sample= 56.8

Sieve Size	Weight Retained	Piner	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	27 5
	-			37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0.3	99.47%	99.5	9.5
# 4	1.1	98.06%	98.1	4.8
# 10	2.2	96.13%	96.1	2.0
# 20	3.5	93.84%	93.8	0.85
# 40	4.7	91.73%	91.7	0.43
# 60	7.8	86.27%	86.3	0.25
# 100	13.6	76.06%	76.1	0.15
# 200	25.9	54.40%	54.4	0.075

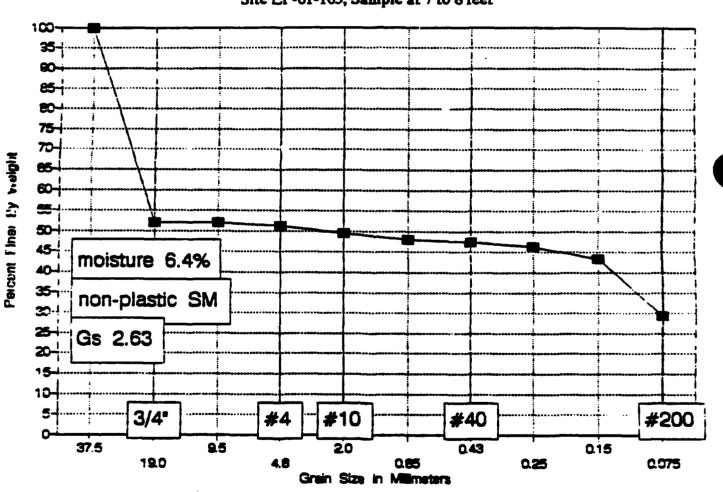
B NUMBER	OWNER/CLI	ent um mont/son	nery	(
RING EP-01	SAMPLE	104 DEPTH _	3-41	
NUMBER OF RINGS	mar	II DISH	1.9h	7
WT. OF RINGS & WET SOIL	0	WT. OF DISH & WET SOL	163.5	7
WT. OF RINGS		WT. OF DISH & DRY SOIL	159.6	
WT. OF WET SOL		WT. OF MOISTURE]
FIELD DENSITY		WT. OF DISH	1028	
DRY DENSITY		WT. OF DRY SOL		
•		FIELD MOISTURE CONTENT	. 69]
SH SIEVE DOY SIE		WEIGHT OF OVEN DEV SON		

DISH	DISH	SEVE NUMBER	WEIGHT	ACCUMULATIVE	ACCUMULATIVE PERCENT					
NUMBER	WEGHT		REDANED	WEIGHT RETAINED	RETAINED	FINER				
!		3°								
	·	1-1/2*								
•		· 3/4°		0						
		3/8*		3						
		#4		1.						
		PAN		·						
		TOTAL								

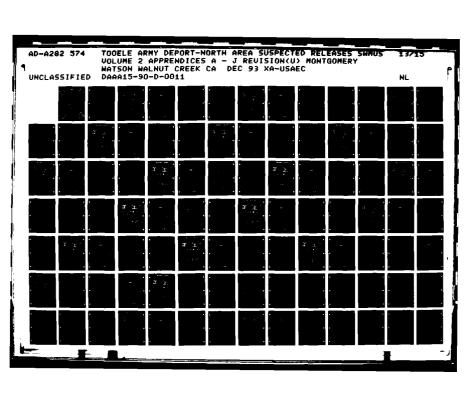
				ACCUM	A	ACCUMULATIVE PERCENT						
DISH NUMBER	B B	SEVE NAMEER	WEIGHT	WEIGHT	RAS	TOTAL						
				TE MED	RETUNED	rner.	PNER					
		#10		2.2		•						
		#20		3.5								
		#40		4.7								
		#60		7.8								
		#100		13.6								
•		#200		25.9								
		PAN										
		TOTAL				•						

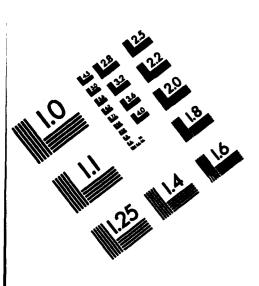
	HOATION								901	RING		/_(/) SA	MPLE	_1	سيرا	_ 0	EPTH	/
FIELD DENSITY	· • · · · · · · · · · · · · · · · · · ·			1			_												
NC I TANIME TES		:	1			<u> </u>	_	<u> </u>	CANINA	TION	١		_		1		4		2
NUMBER OF RIN							4	015									4		
MT OF RINGS +	WET SOIL	**********			*******				OF 015	•				·				شببب	
WT OF RINGS				- 1	_				OF DIS	****		201	_	-					
WT OF WET SOI	<u> </u>						_	w†	OF MOI	STUR	! E	,	_				4-	-	
FIELD DENSITY				_			_	[OF DIS					_		_	ł		
DRY DENSITY									OF DRY				_				$oldsymbol{\perp}$		
PLASTIC LIMIT	or UE.	_						- 116	TD MOI	STUM	16 60	MTEI	<u> </u>						_
DETERMINATION		1				2		3				4			5.		T		6
DISH		AL	9-	-	AL	118	2		di	#	i/a						20/	10	_
WT OF DISH +	ET SOIL	12	78		15.	24			**********			1	ارير	no	11)	\prod		
WT OF DISH + I	RT SOIL	10.	01		12	82							T	-	1	/			
WT OF MOISTURE			*******						-	<u> </u>						-			
WT OF DISH		1	4		1.	4				١.				_		_			
WT OF DRY SOL									_	<u> </u>			\bot						
MOISTURE CONT	NT	20	94		<u> 21.</u>	19		VE.	21	<u> </u>					_				
LIQUID LIMIT																			
DETERMINATION	1	,		1	7	2	$\overline{\lambda}$	3	1						5		T	1	6
DISH		XII	10	1/1	18	3	/ \	9,	4/		_/	D	11	1	2	OF	- 6	R	F
NUMBER OF BLOW	is .	1	بعد		7	1		<u> </u>	7				_	0	_	IVO	\overline{U}	2	_
WT OF DISH + 1	ET SOIL		$\overline{\mathcal{I}}$		1	7		abla					1	00	יע	O	ル	7-	F
WT OF DISH + E	RY SOIL		X	7	7	7_		X					T	(ZE	2			
WT OF MOISTURE			\sum		7	$\sum_{}$		\mathcal{L}	$\sum_{}$	<u> </u>									Ξ
WT OF DISH		1.	4	\prod	1.4	47		/1.4	\mathcal{L}	Ι.				_					
WT OF DRY SOLL				ΔL	/		\sqrt{Z}		Δ										
MOISTURE CONTE	NT	<i>j</i>		V			<u></u>			L									
						0	10		20	L		10	L I M	1 T)	_6	o	70	<u> </u>
FLOW CUR	/E					PL	ASTIC	:ITY	CHA	RT									
				1	1:												C	н	_
		1-	\vdash	•	+ :	T		Ť	+	H				$\neg \exists$				_	
		+	 		++	╂┷┤	-+	+	+	\vdash			\vdash				\vdash	1	_
		<u> </u>			1:	1_		_	-										-
	<u> </u>	\perp						1				CL				<u>``</u>			L
;	1		П	:	1:														
		+-			 	1			+					~					_
	<u>_</u>	+			+	╂╌┥			-										-
		4		-	1 +	\downarrow		-	_							-	4H 4		₹
	•							ACL.	MLZZ		-MI		 OL-			L			_
		, , , ,	,,,	1 111	,] ;				10										
5 7 10	UMBER OF	.70	25 3 0			50		_											_

Site EP-01-105, Sample at 7 to 8 feet



٦,

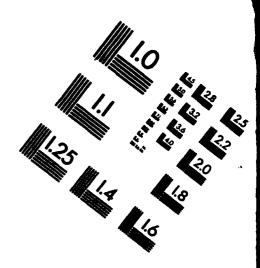




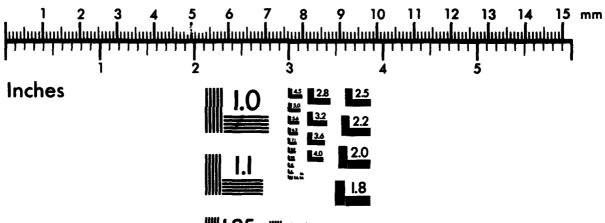


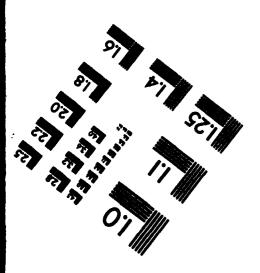
Association for information and image Management

1100 Wayne Avenue, Suite 1100 Silver Spring, Maryland 20910 301/587-8202

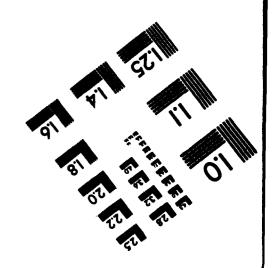


Centimeter





MANUFACTURED TO AIIM STANDARDS
BY APPLIED IMAGE, INC.



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-105	Wt soil and dish Dry soil & dish	202.3 196.7
Depth	7-8 feet	Dish	109.4

Moisture Content = 6.4

SIEVE ANALYSIS

Dry weight of total sample= 87.3

Sieve Size	Weight Retained	Finer	t Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	41.9	52.00%	52.0	19.0
3/8 inch	41.9	52.00%	52.0	9.5
# 4	42.6	51.20%	51.2	4.8
# 10	44.1	49.48%	49.5	2.0
# 20	45.4	48.00%	48.0	0.85
# 40	45.9	47.42%	47.4	0.43
•	46.8	46.39%	46.4	0.25
# 60	·	43.414	43.4	0.15
# 100	49.4		29.4	0.075
# 200	61.6	29.44%	49.9	0.075

سنهزر

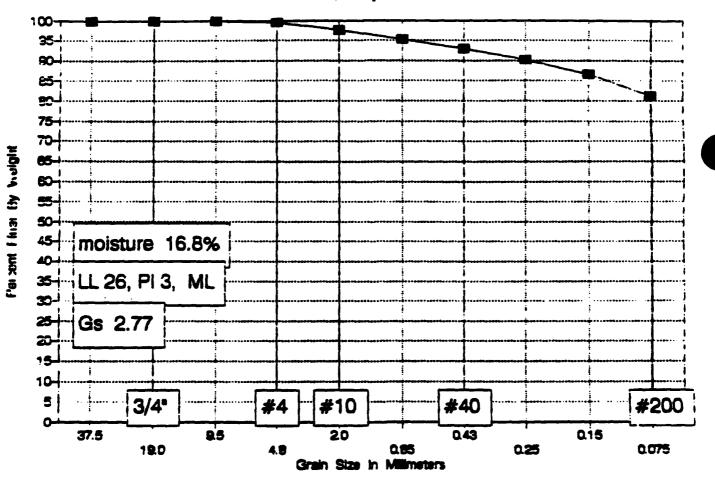
DATE 9/3/92 JOB NUMBER	U1	af nt <u>um monitson</u>	nery	- (
OCATION			i	
BORING EP-01	SAMPLE	<u> 105</u> рертн _	7-8'	
NUMBER OF RINGS	boar	DISH	305]
WT. OF RINGS & WET SOL	0/	WT. OF DISH & WET SOL	202.3]
WT. OF RINGS		WT. OF DISH & DRY SOIL	1 196.7	
WT. OF WET SOL	/	WT. OF MOISTURE		ĺ
FIELD DENSITY .		WT. OF DISH	[09.4-	ļ
DRY DENSITY		WT. OF DRY SOL		
•		FIELD MOISTURE CONTENT	64	
WASH SIEVE DRY SIE	VF	WEIGHT OF OVEN DRY SOIL		(orams)

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE	ACCUMULATIVE PERCENT						
NUMBER	WEGHT	MAGER	RETAINED	WEIGHT RETAINED	RETAINED	ANER					
		3"									
		1-1/2"		0							
•		· 3/4°		41.9	·						
		3/8-		41.9							
	·	#4		41.9							
		PAN									
		TOTAL									

				ACCUM	A	ACCUMULATIVE PERCENT							
DISH NUMBER	DISH WEGHT	SEVE NAMER	WEIGHT	WEIGHT	PAR	MAL	TOTAL						
				re wes	RETAINED	PNER	FINER						
		#10		44.1		·							
		#20		45.4									
		#40		45.9 46.8 49.4									
		#60		46.8									
		#100		49.4									
		#200		61.6									
						·							
		PAN											
		TOTAL											

OPATORY ILASSIFICATION							SORII	46 E	4.0	SAM	PLE .] <u>O</u> -	₽_ ₽	EPTH
FIELD DENSITY ST	/ /				, –									
NC I TAMINA 2 T3 C	1		- 7	•	1 4	DETERM	IMATI	ON			:			
NUMBER OF RINGS	↓				→	DISH							4	
WT OF RINGS + WET SOIL			*******		-} }-	WT OF				<u>-</u>	·····			
WT OF RINGS	↓ ——	_			-	WT OF			301	<u>-</u>			1	_
WT OF WET SOIL	ļ				-l l	WT OF		URE			******			
FIELD DENSITY	ļ				-	WT OF								
DRY DENSITY					┙┝┈	T OF				_	_		4	
THIS IS AN 1/8-1 PLASTIC LIMIT BY UP					ן נ	FIELD	0151	URE	ON TE	II				
DETERMINATION	1	//	2	!	Y	3			4			5 <u>,</u>	Т	
DISH	A-0	5/1	121	2 /			Ol		n	CH	11	120	00	
WT OF DISH + WET SOIL		/	7	,			\prod			LHU			T	
WT OF DISH + DRY SOIL				<u>/</u>			T			U				
MT OF MOISTURE	X		\triangle											
WT OF DISH	1.4		1.4	<u> </u>			T						\top	
WT OF DRY SOIL		\sum_{i}	/	\sum										
MOISTURE CONTENT	/	V					\perp							
IQUID LIMIT														
DETERMINATION	1	1	2		$\overline{\Lambda}$	3	T		4		5	,	\top	
DISH	AL9	7	AL	100	1/2	-4	7		10	VIA	n	0+	ME	F
NUMBER OF BLOWS	1	7	1	/			71			121	PAL	iat	a	
WT OF DISH + WET SOIL			丁	7		7	T			da				_
WT OF DISH + DRY SOIL] _X			/		∇					25	27		
WT OF MOISTURE			$\overline{}$	\		Λ								
WT OF DISH	1.4	Z = Z	1.	4_		(4)								
WT OF DRY SOIL		ΔL	/	\overline{Z}			\perp						\bot	
MOISTURE CONTENT	/	V			/_		Λ							
										LINI				
FLOW CURVE	TT	1:	Ti	PLA	TICH	20 Y CI	IAR	<u> </u>				Τ		
		1:	1:	T		\prod		Τ			T		G	н
		+	+-	1			十	1			十	+	П	
	- - 	++	+-	┝╌┼╴	+-	 	+	+-	╁┈	 	+	+-	\vdash	1
		++	+	 	-	\vdash	_	+	 	-	4	1,4		\vdash
			1:						CL			<u>"</u>		
		T :	T:	1 T							\mathcal{N}			
		1:	1:		\top		\top	1		1	\top			
+		++	+-	╀╌┼╴	+-	++	+	+	17	4	+	+	MH (
		++	┵	┝╌┼╴		├├-	+	+>	4		+	+-	+-	_
1 , 1 ,		<u> </u>	<u> </u>			L-ML	1111	۲.,		o ∟ +		_	↓_	Щ
							刀	1 "	ī	1	1	1	1	1 (
	والبيليين	عنيا												!

Site EP-01-118, Sample at 5.5 to 6 feet



James M. Montgomery P.O. 2942-0130

Site ID	EP-01-118	Wt soil and dish	171
Depth	5.5-6_feet	Dry soil & dish • Dish	162. 107.2
	-	Ÿ	

SIEVE ANALYSIS

Dry weight of total sample= 55.2

Moisture Content = 16.8

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	. 0	100.00%	100.0	9.5
# 4	0.29	99.47%	99.5	4.8
# 10	1.33	97.594	97.6	2.0
# 20	2.65	95.20%	95.2	0.85
# 40	3.86	93.01%	93.0	0.43
# 60	5.41	90.20%	90.2	0.25
# 100	7.35	86.68%	86.7	0.15
# 200	10.38	81.20%	81.2	0.075

	NUMBER 60031	BY	NT COMMONTED	orceri	
LOCA BORII	NG $\underline{EP-01}$	SAMPLE	116 DEPTH .	5.5-6'	
	NUMBER OF RINGS	121	DISH	122	
	WT. OF RINGS & WET SOL. WT. OF RINGS	•••••	WT. OF DISH & WET SOIL WT. OF DISH & DRY SOIL	162.4	
•	WT. OF WET SOL FIELD DENSITY		WT. OF MOISTURE WT. OF DISH	10 1 2	
	DRY DENSITY		WT. OF DRY SOIL FELD MOISTURE CONTENT	16.6	
\4/4 <i>C</i> 4			WEIGHT OF OVEN DRY SOL	ine.	me)

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE	ACCUMULATE	VE PERCENT
NUMBER	WEIGHT	NAMBER		WEIGHT RETAINED	RETAINED	FINER
		3				
	·	1-1/2				
•		· 3/4*				
		3/8"		0		
		#4		0.29		
		PAN		·		
		TOTAL				

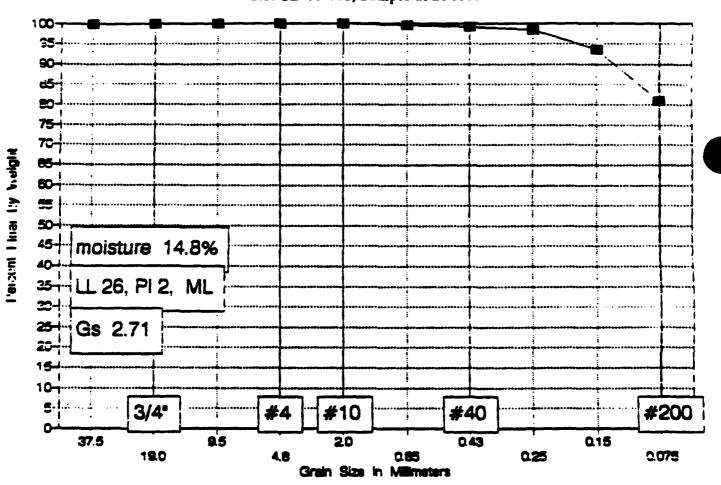
		ų.		ACCUM	A	CLMLLATIVE PERC	2 1763
DISH NUMBER	WEGHT	SEVE NUMBER	WEIGHT RETAKED	WEIGHT	PAR	TIAL	TOTAL
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		REDNED	RETAMED	PNER	ANER .
		#10][1.33		•	
		#20		2.65	٠		
		#40		3.86			
		#60		2.65 3.86 5.41 7.35 10.30			
		#100		7.35			
		#200		10.30			
		PAN					
		TOTAL					

TTERBERG LIMITS	-								-	is \: . (\)	: - / ^ _		=	<u> </u>	- 1	• •	1	-5	20	7
* 111 11411 * 14*	35																			
1480847084 01400	F: C4710N								·	: 7400 808	 RING	5		i s	 14P[110	ם כ	EPTH	
FIELD DENSIT	Y =1		/-							•	-		•	-		-		_		-
OETERHIATION	·	\top	:			:		7	0615		AT 10					1		\top		:
NUMBER OF RIE	465	1			十			7	DISP	,								\top		
WT OF RINGS 4	WET SOIL							7	wT 3	F 015	5 H -	WET	501					+		-
WT OF AINGS	P		********	******		************		-	wT C	F DIS	5 H +	DRY	5011				*****	+		-
WT 2F WET 50				-					*****	F MO1			******		_		_	ł	_	-
FIELD DENSITY		+			╅			┥	w1 0	F 015	S H			-	********					-
DRY DENSITY		+-			+-			- 1	-	F DRI		1	******		_			-		
سيسين سينسيا	S AN 1/8-	INCH T	HREA	<u> </u>				_		0 401			WTF	,,				┿		_
PLASTIC LIMIT	er CAF	- 6%	<i>59</i>	2										لــــــــــــــــــــــــــــــــــــــ						
DETERMINATION	I	T	1		\top	2		T	3		T	¥		T		5.		T		6
DISH		1	16	24-		AL	132				T	_	_	7		·		\top		_
WT OF DISH +	WET SOIL	1		25			42	7			7			1				+		
WT OF DISH +	DRY SOIL	1	11.4			10:	******	1		*******	1	******		_				+		
WT OF MOISTUR		- -	*****					'		_	'			` 	_		_			
WT OF DISH	~~~~	-	1.4	L		7.	4_	_	N a o d 44 q a q a		1-	******				******	****	+	******	
WT OF DRY SOL	<u></u>	- -	استند		-	شاهب		'		_	1				_	_	_			
MOISTURE CONT	PENT		22.	97	- -	72	99	1 -	√ = 2	23				\neg				1		_
LIQUID LIMIT										=										_
DETERMINATION	I		1		Ι	2		T	3			4				5		T		6
DISH			160	9		91	+	T	441	19	\prod			\Box				T		
NUMBER OF BLO)WS		27			10			9											
WT OF DISH +	WET SOIL		2.7	-		0.	8		125											
WT OF DISH +	DRY SOIL		00	<u>4</u>		90.	35		10.0	21								T^{T}		
WT OF MOISTUR	! ξ							1_												
WT OF DISH	-	╛.	1.4	L	1	<u>با</u>	£_	Ι.	1.4	_	1.						_			
WT OF DRY SOI	L	\perp	_															丄		
MOISTURE CONT	ENT	$\perp 2$	5.	5		26.	33		90	<u> 24-</u>				1				丄		_
						-	.	10		20	L	I QU	10	LIM	11 T		•	1 0	71	
FLOW CUR	VE							_	ITY						ΠĨ					<u></u>
	;				-;	:												C	×	
<u> </u>		-		-				+	 	+	\vdash							H		
	-				÷	<u>;</u>		_}-	-										1	
29				_	<u> </u>				4_									/		_
		_ {	1		1			- 1	- {	1 1		' ∤	CL				2/12			l
			\neg						7											
<u> 2</u>	7		_	1		1 :		_	+											Г
	<u> </u>			-	-	+	-		+	+	\vdash			/						
27		B	\downarrow	_	<u> </u>	+											_	HH (4 ├──
27 27 27 27 27 27 27 27 27 27 27 27 27 2	1		7	\mathcal{Q}					EL.		n			<u> </u>						
27 27 26				X	<u> </u>					1.8				OL.						Π
25	1,1,1,1	[f	, , F	1701				1					<u> </u>		. !	L	1	1	٠.
25		پس		<u>, %</u>	T)A	للنب	0						_							
25					1701	للنب	0						-							
25 24 , , ,	0 15) F 81				0	116 1	1017	PLA	571E1	11	1 DEA	715	CAT	0			·		

DEEP SOIL BORING SAMPLES OB/OD AREA

(SWMUs 1, 1a, 1b, 1c, 1d)

Site SB-01-001, Sample at 20 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-01-001	Wt soil and dish Dry soil & dish	377.3 3 4 2.7
Depth	20 feet	Dish	109.6

Moisture Content = 14.8

SIEVE ANALYSIS

Dry weight of total sample= 233.1

Sieve Size	Weight Retained	Finer	\$ Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	.19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 1C	0.1	99.96%	100.0	2.0
# 20	ī	99.57%	99.6	0.85
# 40	2	99.14%	99.1	0.43
# 60	3.5	98.50%	98.5	0.25
# 100	15	93.56%	93.6	0.15
# 200	44.1	81.08%	81.1	0.075

DATE <u>6/20/92</u>	BY LAF	
JOB NUMBER	OWNER/CLENT JM 11111 30 113 EV	
LOCATION		
$\alpha = \alpha = 0$	ours 101 soms 20'	

NUMBER OF RINGS	YOU	DISH	209
WT. OF RINGS & WET SOIL		WT. OF DISH & WET SOIL	」ろそろ
WT. OF RINGS		WT. OF DISH & DRY SOL	342.7
WT. OF WET SOIL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	1 109.6
DRY DENSITY		WT. OF DRY SOL	
		FIELD MOISTURE CONTENT	1:14.8

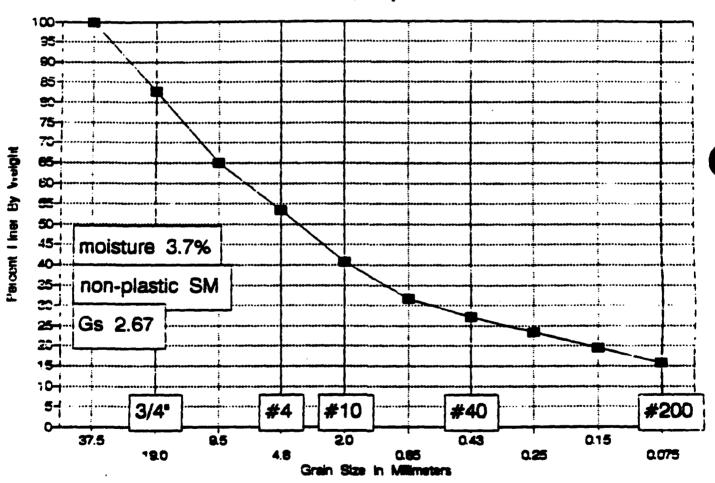
WASH SIEVE ______ DRY SIEVE ______ WEIGHT OF OVEN DRY SOIL ______(grams)

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULAT	ME PERCENT
NUMBER	WEIGHT	NAMER	RETAINED	RETANED	RETAINED	FINER
		3				
	·	1-1/2				
		· 3/4°				
		3/8-				
		#4 .		0		
		PAN		•		
		TOTAL				

				ACCUM	A	CCUMULATIVE PER	ICENT
DISH NUMBER	DISH WEGHT	SEVE NAMBER	WEIGHT	WEIGHT BASTIAL	MAL	TOTAL	
				-EWE	RETAINED FINER		FINER
		#10		.1		·	
		#20		1.0			
		#40		2.0			
		#60		3.5			
		#100		15.0			
		#200		44.1			
		PAN					
		TOTAL				•	

TLERBERG LIMITS TEST DATA					JOB NO. 0345 - 1776 - 704																
-E11 114,19504760N	LOGIALITY FY CATION CONTROL OF THE C				CLIENT/OWNER																
480947081 CASTA TION									FOC	ATIC	ON	715): -			<u> </u>	•		- م_ر	
FIELD DENSITY 81										50 R I	ING	75	,0	_ 5,	MPL	٤ _ ^ر	- L	- D	EPTI	٠	= "
DETERMINATION	1	1 1		:				00	TERM	INAT	ION				_	1		\top		2	_
NUMBER OF RINGS	+			+-			}		ISH					+				+			_
WT OF RINGS + WET SOIL	+					-	WT OF O			1 + 1	ET	501	. +	_			+			_	
WT CF RINGS		********	19 4 9 2 2 2 2 9	+	******	******			OF			_						+			
WT OF WET SOIL	-		_	1				WT OF MOISTURE					-		_		-	-	-		
FIELD DENSITY	+			┿			\dashv											+-			
DRY DENSITY	+			╁╌			┥	WT OF DISM WT OF DRY SOIL FIELD MOISTURE CONTENT		-				_		-					
THIS IS AN 1/8-1	MCH TH	READ	_	<u> </u>			ل											┿			
PLASTIC LIMIT BY 425								<u> </u>			- UKE			<u> </u>							1
DETERMINATION		1				?	I		3			4				5,		I		6	
DISH		111		1	1		\perp														
WT OF DISH + WET SOIL	1	8.0	3 0	<u> </u>	10	96	1														
WT OF DISH + DRY SOIL		5.4	6			52															_
WT OF MOISTURE																					
WT OF DISH]_	1.4	_		1	4					_								-		
WT OF DRY SOIL				L			\perp														•
MOISTURE CONTENT	12	37	6	0 73.80				X=2										\mathbf{I}			
LIQUID LIMIT																					
DETERMINATION		1			2			3			¥				5			\perp		6	_
DISH		2A-		1	ALI 4			A-L130		<u> </u>				\perp							_
NUMBER OF BLOWS		0			9			9													
WT OF DISH + WET SOIL		2.30	2_	<u> </u>	9.83			350										1			
WT OF DISH + DRY SOIL	7 7	<u> </u>	2	1.	<u> </u>	3.03		10.95		7				Í							
WT OF MOISTURE		··········	*******																		
WT OF DISH		1.4	-	Ι.	<u> .4</u>	<u> </u>	1	1.	4	.	_			ı	_		_				
WT OF ORY SOIL	<u> </u>	· ·		<u> </u>	<u>কল</u>		\bot			\downarrow				4				┷			
MOISTURE CONTENT	12	65	<u> 2L</u>	<u>L</u>	<u>27.</u>	5		28.99		21					L						
						0	10		20		L 1 30	QU	1 D	LIM	117	0	6	<u> </u>	. 7	00	
FLOW CURVE		_		· -		PL	ST	cri	r c	IAR	П										
				1	;				ł	_ i_	\perp							C	H		_
;		丄				1						_									
	_	+	十	•							T	ł					1 1		_		
		+	+	-			-	-	1	-	1	\dashv				_					-
		+	+									 					عادد	_			
		1	+	-	:								CL			,	2.10	_			
				-									CL				2.10	_			
		+											CL				2.10	_			
			+										CL.					411 4			
	0												CL.					ah (•	
9 6	0				:			//cı	ML			ML		OL-				AH (1	
	9							CI				ML		٥٠				AH (0		
O IS NUMBER O			1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<u></u>		50		a cu				ML		OL-				AH 4	0		
	F 8LC			7		50	[र्.		**	•	OL-				AH (1	

Site SB-01-002, Sample at 15 feet



James M. Montgomery P.O. 2942-0130

Site ID SB-01-002			Wt soil and dish Dry soil & dish	308.1 300.9
Depth	15 feet	Dish		106.1
Moisture	Content =	3.7		•

SIEVE ANALYSIS

Dry weight of total sample= 194.8

Sieve Size	Weight Retained	Finer	% Finer	Sleve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	33.69	82.71%	82.7	19.0
3/8 inch	68.13	65.03%	65.0	9.5
# 4	90.52	53.53%	53.5	4.8
# 10	115.41	40.75%	40.8	2.0
# 20	133.07	31.69%	31.7	0.85
# 40	141.88	27.17%	27.2	0.43
# 60	149.35	23.33%	23.3	0.25
# 100	156.74	19.54%	19.5	0.15
# 200	164.11	15.75%	15.8	0.075

JOB NUMBER	. BY OWNER/CLI	ENT_UM MANIZO	mery
BORINGGB-0]	SAMPLE	<u>ОС2</u> рертн _	15'
NUMBER OF RINGS	レスコイ	DISH	91
WT. OF RINGS & WET SOL	ď	WT. OF DISH & WET SOIL	1.30C.
WT. OF RINGS		WT. OF DISH & DRY SOIL	300.9
WT. OF WET SOL		WT. OF MOISTURE	•
FIELD DENSITY	1	WT. OF DISH	1.106.1
DRY DENSITY	17	WT. OF DRY SOL	
	· · · · · · · · · · · · · · · · · · ·	FIELD MOISTURE CONTENT	3.7

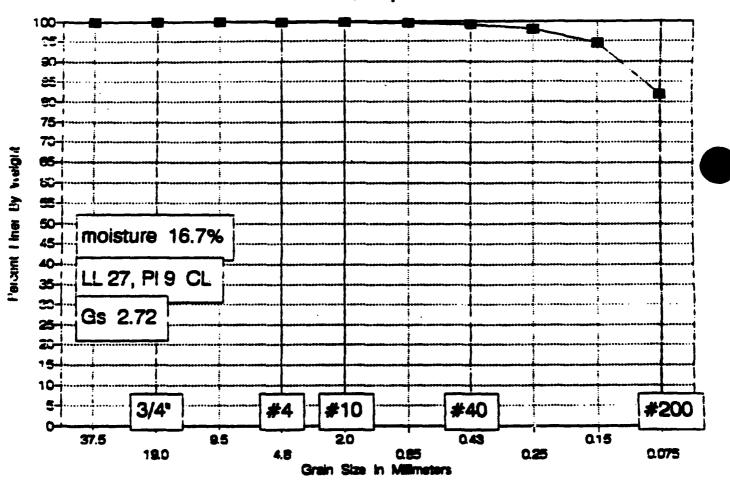
WASH SIEVE DRY SIEVE	WEIGHT OF OVEN DRY SOIL(grams)
----------------------	--------------------------------

DISH	DISH DISH WEIGHT	SEVE	WEIGHT	ACCUMULATIVE	ACCUMULATIVE PERCENT			
NUMBER		NAMER	RETAINED	WEIGHT RETAINED	RETUNED	FINER		
		3"						
		1-1/2		0				
•		. 3/4		33.69				
		3/8*		60.13				
		#4		33.69 60.13 90.52				
		PAN						
		TOTAL						

			ACCUM. ACCUMULATIVE P			COMPLATIVE PER	ENT
DISH NUMBER	DISH WEIGHT	SEVE MAGER	WEIGHT	WEIGHT RETANED	PARTIAL		TOTAL
					RETAINED	FNE R	ANER
		#1 0		115.41		·	
		#20		133.07			
		#40		133.07			
		#60		149.35			
		#100		14935 15674 164.11			
		#200		164.11			
		PAN					
		TOTAL				•	

5	7 10	15	.70	25 3	المناطقية	40 5	0													_
Γ	1 1	1111111	,, [,	1111	11:11					1		Ī	<u>ي.</u> ا							
								777	L. ML	ma	<u>Ł</u> .		 							_
₽ L		<u> </u>			 	 				_	4,	K		Ш		×	H 4	0		
5			_	4	 	╁┼┨		+			 	+-								_
HOISTURE		<u>_</u>	+	+	 	┼┼┤		+	++	+	+	+	1	1	\vdash	\vdash		\dashv		_
- (-		+	+	 	++1		†	1-1-			1	 				一			_
10 M TE W T		-		1		1:1					Ť	CL								_
: Γ								1									7			
_ [-												
1 L	;										_L_	1					C	*		_
,	FLOW CUR			╄-	1	1:1	PLAS	TICT	ry CI	HAR	<u>-</u>	ļ				_	_	_	_	-
_			-	7	, , .	7 - 1		10	20		30	1	0	9	•	60		- X		-
_	- . - .						-				LID	פוט	LIP	1 T						_
	MOISTURE CONT	ENT			Y					$\overline{\Lambda}$							\coprod			_
	WT OF DRY SOI	Ł			M_{2}				`											_
	WT OF DISH			4		11.4	Z	1	1.4.								T			_
	WT OF MOISTUR	E				7	7													,
	WT OF DISH +	DRY SOIL		\overline{Y}		X			∇								1	7		
	WT OF DISH +	WET SOIL		1		$\overline{}$	j	7					1/1	٠)) [ַרַלְי	<i>\(\cappa_{\cappa\cappa_{\cappa_{\cappa\cappa_{\cappa_{\cappa\cappa_{\cappa_{\cappa_{\cappa_{\cappa_{\cappa_{\cappa\cappa_{\cappa\cappa_{\cappa_{\cappa\cappa_{\cappa\cappa_{\cappa\</i>	-		_
Γ	NUMBER OF BLO	# 5			7	1	,	$\overline{}$	7				\Box	71	21	10-	10			_
	015h		W.	-2	7	ALI	07/1	VA	1.132			CO	1.1		7	H.	M	?		
	DETERMINATION		\	1	X	2	/	\	3	7		ı			5		Г		6	
LIQ	UID LIMIT	•																		
L	MOISTURE CONT	ENT			W						•									_
}	WT OF DRY SOI				$\frac{1}{2}$		$-\lambda$			_		_					╄			_
-	WT OF DISH		<i></i>	$\overline{}$.	<i></i>	7	_		.			.	_		-	1			,
[.	WT OF MOISTUR	Ε	/	<u> </u>			/		*******						•••••		 			***
.	WT OF DISH +		7	↓_	.	4	4	_		.			- [_		_/				
].	WT OF DISH +	WET SOIL		<i>_</i>		<u></u>						toc)	- 7	101	<u>11</u>	+-			-
. [DISM		XHL	-124	$\mathbb{K} ert angle$	ALG	02/				10			_	_	_	7/]		_
1	DETERMINATION			1	\perp	2			3	_		4			5.		L		6	_
PL.	ASTIC LIMIT	61 W.II.	.U.F.																	
	ASTIC LIMIT	=						L			-	-								-
L		S AN 1/8-IN		EAD -				-	FIELD			OHTE	<u></u>				╫			
-	DRY DENSITY				-+-			- 1-	WT OF			*******		-		-	1			
}	FIELD DENSITY				-			-	WT OF				-	******			+-			
ł	WT OF WET SOI		_		•			-	WT OF	401S1	URE			_	-:-	_			_	•
1	WT OF RINGS		•	*********		*****	***********	-	WT OF	DISH	+ DR	7 501	7				+			
ł	WT OF RINGS +	WET SOIL			-			-	WT OF	DISH	- #E	501			-		+			-
t	NUMBER OF RIN	ı G S							DISH				\dashv				+			-
ſ	DETERMINATION			1		:		Г	DETERM	INAT	ON				:		T		2	~
FIE	LD DENSIT	Y 81	/	./																
1-50-	470FY 014351	FICATION								5021	NG 23	1-1	ج کی	AMPL	٤ _ إ	<u>ر</u> کرار۔	_ 0:	EPT=	_	.:
1 1 2 2 2 2																				

GRADATION CURVE Site SB-01-003, Sample at 10 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-01-003	Wt soil and dish	477
		Dry soil & dish	424.6
Depth	10 feet	Dish	110

Moisture Content = - 16.7

SIEVE ANALYSIS

Dry weight of total sample= 314.6

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0.59	99.81%	99.8	4.8
# 10	0.84	99.73%	99.7	2.0
# 20	1.32	99.58%	99.6	0.85
# 40	2.36	99.25%	99.2	0.43
# 60	6.15	98.05%	98.0	0.25
# 100	17.48	94.44%	94.4	0.15
# 200	56.78	81.95%	82.0	0.075

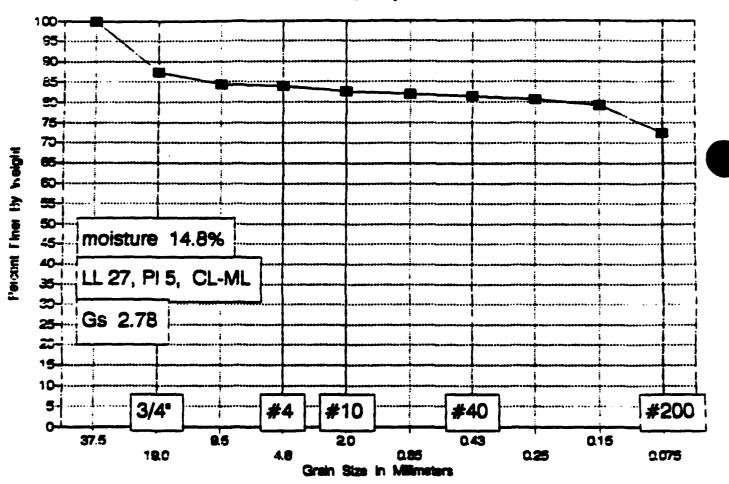
DATE <u>GIZO GIZ</u> JOB NUMBER <u>- GIZO I</u> LOCATION	BY	af <u>um maritzo</u>	merzy	
BORING AF-OI	SAMPLE	00% рертн _	10'	
NUMBER OF RINGS	200	DISH	125	
WT. OF RINGS & WET SOIL	J	WT. OF DISH & WET SOIL	1.477.0	
WT. OF RINGS		WT. OF DISH & DRY SOL.	1.424.6	
WT. OF WET SOL .		WT. OF MOISTURE		
· FIELD DENSITY		WT. OF DISH] [[0.0] L	
DRY DENSITY		WT. OF DRY SOL		
		FELD MOISTURE CONTENT	16.7	
WASH SIEVEDRY SIEV	Æ	WEIGHT OF OVEN DRY SOL	(ora	KIIS)

DISH			WEGHT	ACCUMULATIVE	ACCUMULATIVE PERCENT				
NUMBER	WEGHT	NAMER	RETAINED	WEGHT	RETANED	FNER			
		3*							
	·	1-1/2							
•		· 3/4°							
		3/8*		0					
		#4		0.59					
		PAN		·					
		TOTAL							

				ACCUM	A	COMMUNITYE PER	CENT
OISH DISH NUMBER WEIGHT	SEVE NUMBER	WEIGHT	WEGHT	PARTIAL		TOTAL	
				RETWED	RETANED	FNER	PNER
	·	#10		0.84 1.32 2.36 6.15		·	
		#20		1.32		·	
		#40		2.36			
		#60		6.15			
		#100		17:48			
		#200		17:48 56:76			
-		PAN					
		TOTAL					

ESL CLAUC FO CATHON							06 53 L EST 00471										
FIELD DENSITY 31							=34	RING	SB	-0	<u>)</u> s4	MPL	رَّو ٤	VE	ه _ ه	E P T H	٠.
DETERMINATION	1		:		1 [DETE	RUINA	17 101	•		Т	-	1		7		2
NUMBER OF RINGS					1	015#	1			- 1.	寸				十		
WT OF RINGS + WET SOIL					1	wT 3	FDIS	H +	WET :	501					\top		
WT OF RINGS					1 1	w7 0	F DIS	5H +	DAY	5011		*****	*******	-		*********	
WT OF WET SOIL		'				WT C	F #01	STU	16			-	-	_	1	_	
FIELD DENSITY					1 [wT 0	FDIS	5 M									
DRY DENSITY						wT 0	F DRT	501	L						1		
THIS IS AN 1/8-						FIEL	D #01	STU	E COI	(TEI	17						_
DETERMINATION	1		2			3			ц				5		T		6
DISH	AL 122		AL.	112											1		_
WT OF DISH + WET SOIL	18.00		17:	50													
WT OF DISH + DRY SOIL	15.44	-	15.(T				T		_
WT OF MOISTURE						******								_			
WT OF DIŞH	14			£_							T	_			T		
WT OF DRY SOIL				-											1		_
MOISTURE CONTENT	10.22		10.	9	<u> </u>	<u> </u>	10				\perp						
LIQUID LIMIT																	
DETERMINATION	1		2			3			4				5		T		6
DISH	AL9		AL	100	I	10	12										
NUMBER OF BLOWS	28		15			12											
WT OF DISH + WET SOIL	11.72	*****	Шē	19		2.7	5_		~~~~	-							
MT OF DISH + DRY SOIL	9.56	. 1	94	5	1	<u> </u>	3	Ι.		_	ı	_		_			_
WT OF MOISTURE			-		<u> </u>	· · · · · · · · · · · · · · · · · · ·	******	<u> </u>			_				1		_
WT OF DISH	1.4	ĺ	1.4	<u> </u>	-	1.4	_	Ι.			.	_		_			_
WT OF DRY SOIL	- 0/2 4=				 _		_	↓_			4				+		_
MOISTURE CONTENT	26.4	<u> </u>	29	07	12	7.3	5/_	1									_
				0	10	;	20	į	I QU I	D 4		1 T S	0	•	0	,	0
FLOW CURVE				PLAS	FICE	ŤΥ	CHA	RT									
															C	Н	
	11				T												
		1	1:		1	1	T										ľ
 		 		 	+-	+-	+-	\vdash		CL			 				۲
		 	+	┝╼┼╸		┼	+	-	 	-	-		\vdash	_			H
		<u> </u>	Ŀ	$\vdash \vdash$		<u> </u>											L
7																	L
	N		:											•	44 (0	H
29 29 27	7																Γ
26				\vdash		<u> </u>	MLZ		ML	•	OL-					\vdash	۲
25 5 7 10 15 NUMBER (.70 25 3			10		1		-				<u> </u>		'		<u></u>	_
SUMMARY	. B[A43																
DES DENS ITT CONTENT	LIQUID			TIC LI	MIT		TICI RDEX	77	1 0 E M T	151	CAT	010					_
	7	·		a	T		\overline{a}			77							_

Site SB-01-004, Sample at 20 feet



James M. Montgomery P.O. 2942-0130

Site ID SB-01-004	Wt soil and dish Dry soil & dish	353.4 322.1
Depth .20 feet	Dish	110.7
Moisture Content = 14.8	•	

SIEVE ANALYSIS

Dry weight of total sample= 211.4

Sieve Size	Weight Retained	Finer	4 Piner	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	26.51	87.46%	87.5	19.0
3/8 inch	33.11	84.34%	84.3	9.5
# 4	34.24	83.80%	83.8	4.8
\$ 10	36.72	82.63%	82.6	2.0
# 20	37.88	82.08%	82.1	0.85
# 40	39.19	81.46%	81.5	0.43
# 60	40.95	80.63%	80.6	0.25
# 100	44.12	79.13%	79.1	0.15
# 200	58.15	72.494	72.5	0.075

34

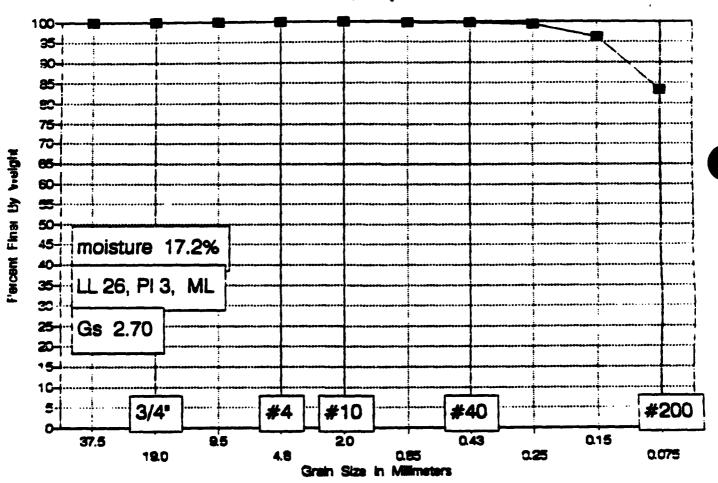
DATE		M UM Monisor	rezy
BORING	SAMPLE	004 DEPTH _	20'
NUMBER OF RINGS	Dary I	DISH	23
WT. OF RINGS & WET SOIL	0	WT. OF DISH & WET SOIL	3534
WT. OF RINGS		WT. OF DISH & DRY SOIL	1.322.1.
WT. OF WET SOL		WT. OF MOISTURE	1
FIELD DENSITY	./	WT. OF DISH	1 170.4
DRY DENSITY		WT. OF DRY SOL	
•	•	FIELD MOISTURE CONTENT	148
WASH SIEVE DRY SIEV	Æ	WEIGHT OF OVEN DRY SOL.	(grams)

DISH	DISH	SEVE	WEIGHT	ACCUMALATIVE	ACCUMULA	TIVE PERCENT
NUMBER	WEGHT	NAMER	RETARED	WEIGHT RETAINED	RETAINED	FINER
		3-				
-	·	1-1/2		0		
•		· 3/4°		26.51 33.11 34.24		
		3/8*		33.11		
		#4		34.24		
		PAN	ŀ	·		
		TOTAL				

·				ACCUM	M	COMMUNITYE PER	ZENT
DISH NUMBER	DISH	SEVE NUMBER	RETUNED	WEIGHT	PARTIAL.		TOPAL
					RETUNED	FNER	rner
		#10		36.72		·	
		#20		36.72 37.88			
		#40		39.19			
		#60		40.95			
		#100		44.12			
	·	#200		44.12 56.15			
		PAN					
		TOTAL				•	

t = 6 0	PATOF* (11435)F)	CATION									CATI	RINC	Ĵ:	3-1	∑!s	анрі	٤_(_ 0	EPT	۔ ٠
F	ELD DENSITY	81	-//	/ ·		_							_ •	-			-				-
	NC I TANIMABISO			1			2			ETER	MINA	TIO					1				2
	NUMBER OF RINGS									15H											
	WT OF RINGS + W	ET SOIL					*******			T OF	DIS	H +	WET	501	L						
	WT OF RINGS				.			ł		T OF	015	H +	DRY	501	_	_				_	
	WT OF WET SOIL									T OF	MOI	STU	RE				*****	******			
	FIELD DENSITY					<u> </u>		_		T OF	015	H				_					
	DRY DENSITY								_	T OF	₽		_						┵		
		AH 1/8-INCH							Ľ	1E LO	MOI	STU	RE C	ONTE	HT		_				
P	LASTIC LIMIT	or UF.S.	ZV.	22	•	- (-														
	DETERMINATION		1			- 2	2	\perp		3				4			5		T		6
	DISH		11	24	- [20														
	WT OF DISH + WE			20			27	T			••••••				\Box				I		
	WT OF DISH + DR	Y SOIL		58		110					-				\Box				T		
	WT OF MOISTURE						********											*******			
	WT OF DISH			<u>4</u>		1.6	}		_		-	1			.	_		_			
	WT OF DRY SOIL											Ļ							$oldsymbol{oldsymbol{oldsymbol{oldsymbol{eta}}}$		
	MOISTURE CONTEN	1	<u> 22</u>	<u>.17</u>		21	<u>99</u>		<u> </u>	= 2	2	<u></u>		_							
LI	QUID LIMIT																				
	DETERMINATION		1	l .		2				3			- 1				5		T		6
	015H		20 20)		ALI	(5)		At	الر	4										
	NUMBER OF BLOWS		20	<u>)</u>		19	_)											
	WT OF DISH + WE	T \$01 L	11.	62		13	45	$oxed{L}$	Ш	9	<u> </u>								\perp		
	WT OF DISH + DR	7 501 L	9.	42		10.	93		9	.4-	F					_				-	
	WT OF MOISTURE							_			******	<u> </u>			_				4		
	WT GF DISH			4_	.	<u>ال</u>	4_			.4	_				. [_	.—-	_	1		
	WT OF DRY SOIL		- 7 -	7	_	-	-	\bot	<u> </u>		_	↓_			_				+		
	MOISTURE CONTEN	·	26	0		2+	:7 e		7	3.3	土	<u> </u>									
															LIF						
	FLOW CURV	E .		ī	1	7:	0	10 ASTI		- X			0	_	<u> </u>	- 		_			Ë
				 	 	╀			- 		-	~.			-	-	_				\vdash
		<u>;</u>	<u> </u>		l i	↓ ;	\sqcup	_						_			<u> </u>		C	H	L,
				<u> </u>]												
		•			1																abla
		1			1	1:						_		CL			Τ,				
			-	╁╌	+ +	++	╂╌┤	\dashv		-	-			-		-					┢
20 20 20	+ 72		<u> </u>	 		+÷	╂╌┤		{				_	<u> </u>	 	1	-	_	<u> </u>		├-
20			<u> </u>	L		↓								L.,	/		Ļ				<u> </u>
3	:	: 0					1 1									<u> </u>		•	4H (0	H
24		i		6		1				L-M											
26				† <u> </u>	*	Ţ	\vdash		44 C	M	4		MI	7	Or.						\vdash
25	5 7 10	1111111		<u> </u>	<u>, </u>		<u> </u>						L		<u> </u>	<u> </u>	Ц	Ц	<u> </u>	Ц	<u> </u>
		HBER OF B				-	-														
_																					

Site SB-01-005, Sample at 25 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-01-005	Wt soil and dish	304.9
		Dry soil & dish	276.1
Depth	25 feet	Dish	108.3

• Moisture Content = 17.2

SIEVE ANALYSIS

Dry weight of total sample= 167.8

Sieve Size	Weight Retained	Finer	% Finer	Sleve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0.1	99.94%	99.9	2.0
# 20	0.34	99.80%	99.8	0.85
# 40	0.59	99.65%	99.6	0.43
# 60	0.99	99.41%	99.4	0.25
# 100	6.49	96.13%	96.1	0.15
# 200	28 03	83 30%	83.3	0.075

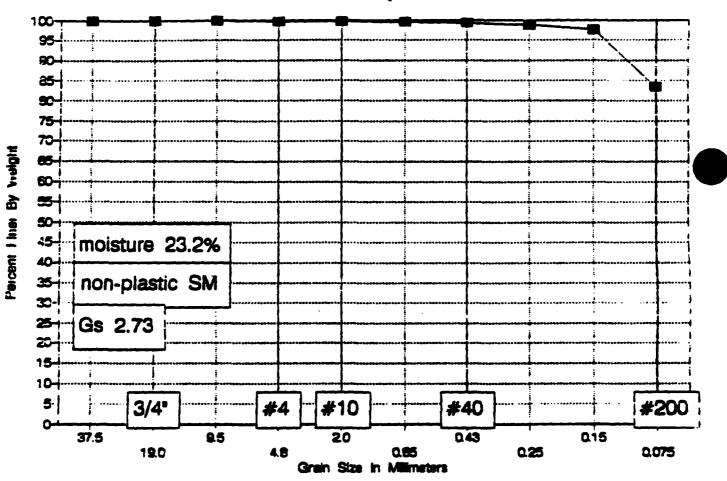
MBER	OWNER/CLI	ENT UNA MACIALISON	
GP-01	SAMPLE	005 DEPTH _	25'
NUMBER OF RINGS	ma	DISH	35
WT. OF RINGS & WET SOL	0	WT. OF DISH & WET SOL	304.9
WT. OF RINGS		WT. OF DISH & DRY SOIL	276.1
	,	WT. OF MOISTURE	
WT. OF WET SOL			'1••1 <i>'A SH</i>
	1	WT. OF DISH	1 109.3
WT. OF WET SOIL FIELD DENSITY DRY DENSITY	/	WT. OF DISH WT. OF DRY SOIL]06.3

DISH	DISH	SIEVE	WEGHT	ACCUALATIVE	ACCUMULATI	VE PERCENT
NAMBER	WEGHT	MARKER	RETANED	WEIGHT	RETAINED	ANER
		3*				
	·	1-1/2				·
•		· 3/4°				
		3/8*				
		#4		0		
•		PAN		·		
		TOTAL				

			11	ACCUM	A	ACCUMULATIVE PERCENT					
DISH DISH NUMBER WEIGHT	SEVE MANGER	WEIGHT	WEGHT	PAR	TRAL	TOTAL					
				RETAINED	ne.	ANER					
		#10		0.10		·					
		#20		0.34							
		#40		0.53							
		#60		0.99							
		#100		6.49							
		#200		6.49 26.03							
			<u> </u>								
		PAN									
		TOTAL									

148094738Y 31488	T104 IFICATION							-:		ON							
FIELD DENSIT									EDR	ING _	´	- 5	IMPL:	-		- DE	EPTH
DE"ERWINATIO		T	1	- T			7 6	DETF	RM I N A	TION				1		Τ-	
NUMBER OF RE		 					⊣ }-	D 15 H				-		<u> </u>		+-	
WT OF RINGS		1		-			⊣ ⊢			H + WE	T SOI		_			+-	
WT OF RINGS	***************************************	 			******	*********	-			H + DR			*********		****	+-	
WT OF WET SO		1 -		•		—	-	wT 0	F M01	STURE			_				
FIELD DENSIT				-			┥ [-	wT 0	F DIS	M			*******			+	
PRY DENSITY		 		+			┪╏	WT O	F DRY	SOIL			_	_	_		_
	15 AN 1/8-11	ICH THE	READ -				- -			STURE	CONTE	NT			_	+-	
PLASTIC LIMI	T BY	27.	1				_										-
DETERMINATIO	N		1		2		I	3			4			5.		$oldsymbol{\mathbb{T}}$	
DISH						1/2											
WT OF DISH 4	WET SOIL		2, 7.			77-		*******		<u> </u>	*****			••••••			
WT OF DISH	DRY SOIL	1 1	3.6	-	17	<u>00</u>	_		_	_		.]			_		
WT OF MOISTU	R E		*********		***************************************	·····	ļ						-				
WT OF DISH	*******	_	<u>.</u>	.			_		_			. [_		_	.	
WT OF DRY SO) [<u> </u>					<u> </u>									<u> </u>	
MOISTURE CON	TENT	12	3.02		23	12	$\perp \bar{\chi}$		<i>[3</i>]	Ĺ							
LIQUID LIMIT																	
DETERMINATIO	H		1					3			4			5			
DISH		A	75.			ア		LI	7								
NUMBER OF BL	ows.	1	2主		13	=		9				\Box					
WT OF DISH +	WET SOIL	110	993	-	11.	13		2.13		ļ							
WT OF DISH +		1 9	9.04	-	95	5	1 5	2.7	1	_		.	_		_	.	
WT OF MOISTU	RE	ļ			•	·	<u> </u>	·····		ļ		_				1_	
WT OF DISH		_!	<u>.4</u>	.		<u>_</u>	-	.4	_	_		-	_		_	.	
WT OF DRY SO			· ·		<u> </u>	==	↓_	7 7		-						4_	
MOISTURE COM	TENT	1/2	226		26	25	$\perp Z$	B. (20	L							
						0	10	1	9	L 1 (ם ו ט	[])	1 I T	.	G	0	7
FLOW CU	RVE				H		STICE	7	, ,								
									1 1							C	4
			1		1:			T		\neg	1						
29	-	\dashv	+-	 +	++-	 	+-	†			+	\vdash	$\vdash \vdash$		$\vdash \dashv$	 	1
	 		+-		╁÷	-	- -	+-		+	+-	┼-	\vdash			4	
79			4_		 					_	Cr	Щ.	\sqcup		\geq		
		_	ł		1:												
20			\top		1		1										
26 27 26	 	3	+-	+ +	++		+-	+		+	+	*	\vdash			 #H @	
76	 	4	1=	 	+-			+	 	٠	4	╄					
است	1		X	ــــــــــــــــــــــــــــــــــــــ	<u> </u>		111	CL-N	AL Z	72.	l IL a	QL.	Ш			Ш	
		<u></u> ,	الل	Ti'r					ノヤ		Ī						
25		٠,٠	25 3			50											
25	10 15																
25	IO IS Number of																

Site SB-01-006, Sample at 45 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-01-006	Wt soil and dish Dry soil & dish	743.5 624.3
Depth	45 feet	Dish	111

Moisture Content = 23.2

SIEVE ANALYSIS

Dry weight of total sample= 513.3

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	Ō	100.00%	100.0	9.5
# 4	1.3	99.75%	99.7	4.8
# 10	1.6	99.69%	99.7	2.0
# 20	2.2	99.57%	99.6	0.85
# 40	3.8	99.26%	99.3	0.43
# 60	5.9	98.85%	98.9	0.25
# 100	11.7	97.72%	97.7	0.15
# 200	95 7	93 408	83 4	0.075

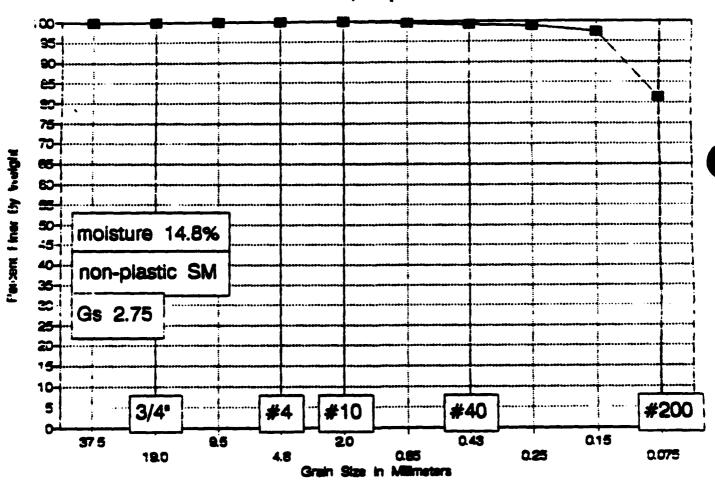
B NUMBER	BY	OF UNINONIECH	12121
ring GB-01	SAMPLE_	006 DEPTH _	45'
NUMBER OF RINGS	bag	DISH	32
WT. OF RINGS & WET SOL. WT. OF RINGS		WT. OF DISH & WET SOIL WT. OF DISH & DRY SOIL	624.3
WT. OF WET SOL FIELD DENSITY		WT. OF MOISTURE WT. OF DISH	
DRY DENSITY	<u> </u>	WT. OF DRY SOL FIELD MOISTURE CONTENT	23.2
SH SIEVE NOV SI		WEGNT OF OVEN DRY SOL	

DISH	DISH	SEVE	WEIGHT	ACCUMILATIVE	ACCUMULATE	VE PERCENT	
NUMBER	WEGHT	MAGER	MARKER	NAMER RETAINED	WEIGHT RETAINED	RETAINED	FINER
		3"					
	•	1-1/2'					
•		· 3/4°					
		3/8"					
		#4		1.3			
		PAN		·			
		TOTAL					

				ACCUM. WEIGHT RETAINED	. A	ACCUMULATIVE PERCENT					
DISH NUMBER	DISH WEIGHT	SEVE NAMBER	RETAINED		PARTAL		TOTAL				
					REDAMED	rver .	FNER				
		#10		1.6		•					
		#20		2.2							
		#40		3.8							
		#60		5.9							
		#100		11.7							
		#200		85.2							
:		·									
		PAN									
		TOTAL				•					

TERBERG LIMITS TEST DAT			JOS NO CLIENT		mnlon	toome
THE SERVICE SERVICES			LOCATI	ON		
.480947081 0048048646A71 0 N			504	PING SB-OL	SAMPLE 001	O DEPTH 4
FIELD DENSITY 31	//					
CETEMENATION	1	:	DETERMINA	TION	1	2
NUMBER OF RINGS			DISM			
WT IF RINGS + WET SOIL			WT OF DIS	H - WET SOIL		
WT DE RINGS			WT OF DIS	H + DRY SOIL		
W" OF WEY SOIL			WT OF MOI	STURE		
FIELD DENSITY			WT OF DIS	j M		
TIZNE TRE			WT OF DRY	SOIL		
PLASTIC LIMIT BY WE.	_		FIELD MOI	STURE CONTENT		
DETERMINATION	1	2	3		5	6
DISH	15	61	61	Hourt	Ho The	elad
WT OF DISH + WET SOIL	14.80	15.67			11L+V)	
WT OF DISH + DRY SOIL	12.32	13.11				
WT OF MOISTURE						
WT OF DISH	1.4-	1.4				
WT OF BRY SOIL						
MOISTURE CONTENT	<u> 22.71 </u>	23.57	X=23	<u> </u>	<u> </u>	
LIQUID LIMIT						
DETERMINATION	1	2 /	3	4	5	6
DISH	ALION	AL 116/	AL90/	COUL	1 170+	1205-
NUMBER OF BLOWS	1	\	\		equate	
WT OF DISH + WET SOIL					ow cou	
WT OF DISH + DRY SOIL	$\overline{\lambda}$	V			(25)	
WT OF MOISTURE	\overline{Z}	$\overline{\mathcal{A}}$				
WT OF DISH	1.4	1.4	1.4			
WT OF DRY SOIL						
MOISTURE CONTENT					<u> </u>	<u> </u>
		•	10 20	LIQUID L 30 40		i0 <u>70</u>
FLOW CURVE		PLAS	TICITY CHA	RT		
						СН
					7-1-1-	
		: : - -	++++		+++	11
	- - - -	• • • • • • • • • • • • • • • • • • • •			1	
			1-1-1-1	CL	117	
	1 6 1					
					1	
						WH & OH
		! ! 			+++	
 	-}}-	- - -	CL. ML	ML & O	┖┼┼┼	
سيسيلسني					لللل	
5 7 10 15 Number of	70 25 30	40 50				
SUMMARY						

GRADATION CURVE Site SB-01-007, Sample at 25 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-01-007	Wt soil and dish	409.7
		Dry soil & dish	371
Depth	25 feet	Dish	109.1

Moisture Content = 14.8

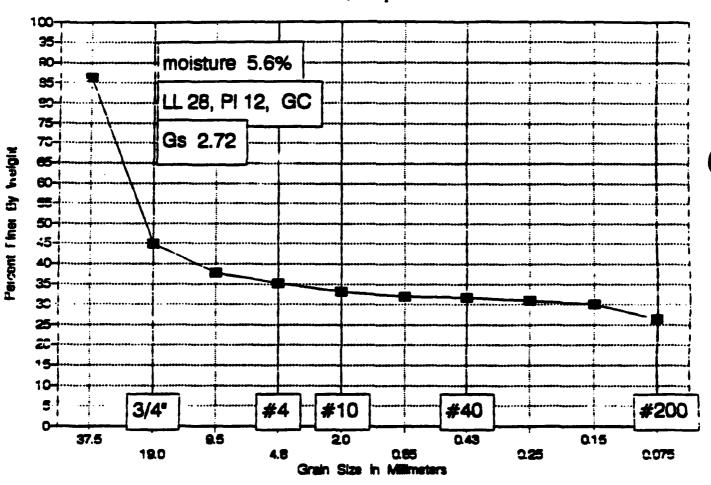
SIEVE ANALYSIS

Dry weight of total sample= 261.9

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0.4	99.85%	99.8	2.0
# 20	1.4	99.47%	99.5	0.85
# 40	2.4	99.08%	99.1	0.43
# 60	3.2	98.78%	98.8	0.25
# 100	7	97.33%	97.3	0.15
# 200	48 8	81.37%	81.4	0.075

0.477	6,70	90	~	1					
JOB NUA	•	- 1900-1	OMMED#	Y CAST	17.	17 10	1:611	CEN	
LOCATIO			OWIEN	/US/1	· · · · · ·	<u> </u>	اداداد	j	-
)[SAMPLE	<i>5</i> 07	-	1	У ЕРТН	252!	
			Comment of the			•	سيحمد ١٠١ لهام		_
N	IMBER OF RE	VGS	1213	DISH				316]
	T. OF RINGS	& WET SOL	ن	WT. O		& WET		409.7.	}
100	T. OF RINGS T. OF WET S	M	•••••	WT. O		& DRY S	OL.	.2.+1.0	l
	BLD DENSTLY			WT. O				[09.]	
D	RY DENSITY			WT. O					
		•				UPE CON		4.8	į
WASH S	EVE	DRY SIE	VE	WB	энт о	FOVEN D	NRY SOIL		(grams)
DISH	DISH	SEVE	WEGHT	ACCUMU			ACCUMULAT	WE PERCENT	
NUMBER	WEGHT	NUMBER	LEDNE.	WEG RETAI		RE	TANED	FINE	R
		3.							
		1-1/2*							
•		· 3/4°							_
		3/8*							
		#4		0					
		PAN		•					
		TOTAL							
		•							
				ACCUM		A	COMPLATIVE	PERCENT	
DISH NUMBER	MEIGHL DISH	SEVE NUMBER	WEIGHT	WEGHT			ITAL		TAL.
					RE		PNER		
		#10		.4					
		#20		1.4					
		#40		2.4					
		#60		32					
		#100		7.0					
-		#200		48.8					
	i								
		PAN					1		
		TOTAL							

Site SB-01-008, Sample at 100 feet



James M. Montgomery P.O. 2942-0130

Site ID SB-01-008			Wt soil and dish Dry soil & dish	950.4 909
Depth	100 feet		Dish	167.9
Moisture	Content =	5.6	•	

SIEVE ANALYSIS

Dry weight of total sample= 741.1

Sieve Size	Weight Retained	Finer	t Finer	Sieve opening mm
1.5 inch	101.57	86.294	86.3	37.5
3/4 inch	408.1	44.93%	44.9	19.0
3/8 inch	460.81	37.82%	37.8	9.5
# 4	479.82	35.26%	35.3	4.8
# 10	495.72	33.11%	33.1	2.0
\$ 20	503.37	32.08%	32.1	0.85
# 40	507.42	31.53%	31.5	0.43
# 60	511.69	30.96%	31.0	0.25
# 100	519	29.97%	30.0	0.15
# 200	545.53	26.39%	26.4	0.075

NUMBER	OWNER/CLI	ent um moniga	nery
NG _ 5/3-()	SAMPLE	OOS DEPTH .	100'
NUMBER OF RINGS	12400	DISH	147
WT. OF RINGS & WET SOIL		WT. OF DISH & WET SOIL	1.9504
WT. OF RINGS & WET SOL. WT. OF RINGS		WT. OF DISH & DRY SOL	909.0
1		11000000000000000000000000	9504
WT. OF RINGS		WT. OF DISH & DRY SOL	9504 909.0 [6 1 .9
WT. OF RINGS WT. OF WET SOL	,	WT. OF DISH & DRY SOIL WT. OF MOSTUFE	9504 909.0 [6 1 .9.

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULA	TWE PERCENT
NUMBER	MEGHT	KAGER	RETAINED	RETAINED	RETAINED	ANER
		3*		0		
	·	1-1/2"		101.57		
•		. 3/4		400.01 400.01 479.02		
		3/8		400.01		
	·	#4		479.82		
	•	PAN		·		
		TOTAL				

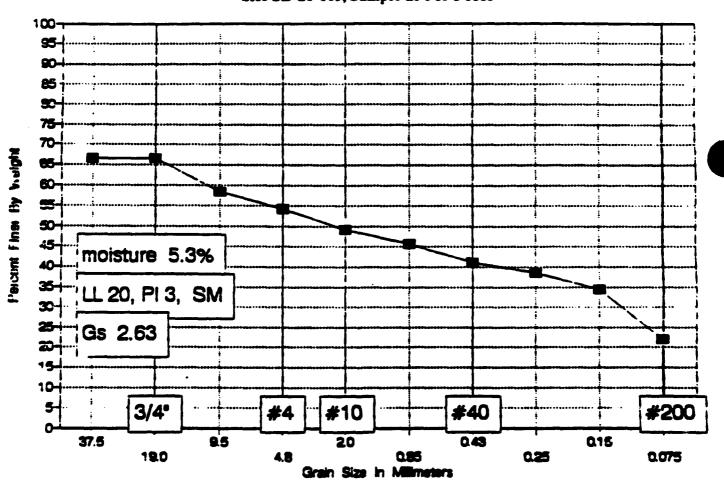
				ACCUM	A	COMMUNITYE PER	CENT
DIŞH NUMBER	WEIGHT	SEVE MANGER	WEIGHT	WEIGHT	PMF	MAL	TOTAL
]		RETANCED	FNER	FNER
		#10		49572		·	
		#20		503.37	-		
		#40		507.42	•		
		#60		495:72 503:37 507:42 511.69			
		#100		519.00 545.52			
		#200		545.53			
		·					
		PAN					
		TOTAL				•	

	:									:. <u> </u>								
809470F* 01438+								•	.::∴ E3	RINE	7.5	, - ^	1 54	MPI	,-	170		PTL
FIELD DENSITY	r :	-//.	 ·						-5	~ 1 ~ 3	`' ·	<i>.</i> —-	_		`		- ``	
DETERMINATION		1		\neg	:		۱ ۱	DET	ERMIN	ATION					1		T	
NUMBER OF RIN	üS						1 1	CIS	Ħ				一				1	
WT OF RINGS +	WET SOIL	********					1 1	wT	3F 0 1	SH -	WET	\$01 (
WT OF HINGS		********	*******				1 1	wT	OF D1	SH +	DRY	SCIL				****	1	*******
WT OF WET SOI	L			-		حبست	11	ψT	OF MO	ISTU	E	*****		_			1	
FIELD DENSITY			_				1	wT	0F 01	SM						*******	1	
DRY DENSITY							1	wī	OF DR	7 501	L					_		
	S AN 1/8-INCH							FIE	FD MO	STUR	E CO	NTEN	T					
PLASTIC LIMIT	or AFG	1240	22				•											
DETERMINATION		1		\neg	2		T	3		\top	4	i	Т		5.	_	7	
DISH		A!	!	, ,	<i>[-</i> ' '	20											T	
WT OF DISH +	WET SOIL	13:	02			54												
WT OF DISH +	DRY SOIL	****	07	*****	12	20000 100 100	Ī			1							T	
WT OF MOISTUR	E																	
WT OF DISH		1.4	4_		1.4	<u> </u>							T	_		_		
WT OF DRY SOL	L						L											
MOISTURE CONT	ENT	164	Ю		6.2	18		χ̈̃	6								$\prod_{i=1}^{n}$	
LIQUID LIMIT														_				
DETERMINATION		1			2		Τ-	3		T			T		5		T	
DISM		AL	172	3	A	-7-		91	93	\top								
NUMBER OF BLO	# 5	25			2			9										
WT OF DISH +	WET SOIL	12.	67	-	12.	70		13.	03									
WT OF DISH +	DRY SOIL	10.	47	-	10.	22		10.	82							_		
WT OF MOISTUR	E								.,=			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
WT OF DISH		1.4	4			<u> </u>	Ι.	1.4	<u>Ł</u>					_		_	1	
WT OF DRY SOL							1_			Ц_			_			_		
MOISTURE CONT	ENT	26	46		29	12	12	31.	15						_			
												10	LIH		_		_	
FLOW CUR	IVE .	Ţ		1 ;	T :	o Di A	10 5710	ITY	CH/	_	•			,	<u></u>			<u>~</u>
		+	-		+	 	+	+	-		-	\vdash			 		┝╼┤	
		 	<u> </u>	 -	;-		+	4	-				\vdash			-	C	"
+ +					1 .	1 1				igspace			Ш				\sqcup	_
1				<u> </u>	1	\vdash			,		1							
2		+	_		:			_[1	L							
2	$\overline{}$			+			-	$\frac{1}{1}$	-	+-		CL			T •			
2				;	+							CL						
2				:	 		1					CL						
2				:	÷							CL	_		>			
2				;	 						>	CL.		_			MH 6	. 0
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				:	 				And 2	V	2		/		, 		MH (0
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		5						ACL.	- ML2		MI		OL-		<i>;</i>		MH 6	. 0
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						90		3CL			MI		OL-				MH 4	. 0
						20	22	ZCL			MI		OL-				MH 0	0
2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		BLOW	s			30		<u> </u>			M.		<u> </u>				MH G	. 0

SHALLOW SOIL BORING SAMPLES

SWMUs 26, 29, 42, 46

Site SB-26-005, Sample at 0 to 3 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-26-005	Wt soil and dish	301.9
		Dry soil & dish	292
Depth	0-3	Dish	106.2

Moisture Content = 5.3

SIEVE ANALYSIS

Dry weight of total sample= 185.8

Sieve Size	Weight Retained	Finer	% Piner	Sieve opening mm
1.5 inch	62.1	66.584	66.6	37.5
3/4 inch	62.1	66.58%	66.6	19.0
3/8 inch	77.5	58.29%	58.3	9.5
# 4	85.2	54.14%	54.1	4.8
# 10	94.3	49.25%	49.2	2.0
# 20	101.2	45.53%	45.5	0.85
# 40	109.5	41.07%	41.1	0.43
# 60	114.2	38.54%	38.5	0.25
# 100	122	34.34%	34.3	0.15
# 200	145	21.96%	22.0	0.075

SA

NUMBER	OWNER/CLI	ent JM Montgo	IRLY
ng 68-26	SAMPLE _	005 DEPTH_	0-3'
NUMBER OF RINGS	haa	DISH	432
WT. OF RINGS & WET SOL.		WT. OF DISH & WET SOL	301.9
WT. OF RINGS		WT. OF DISH & DRY SOL	0.6PG
TALL OF UNIOS			
WT. OF WET SOL		WT. OF MOISTURE	
		WT. OF MOISTURE WT. OF DISH	106.2
WT. OF WET SOL			1062

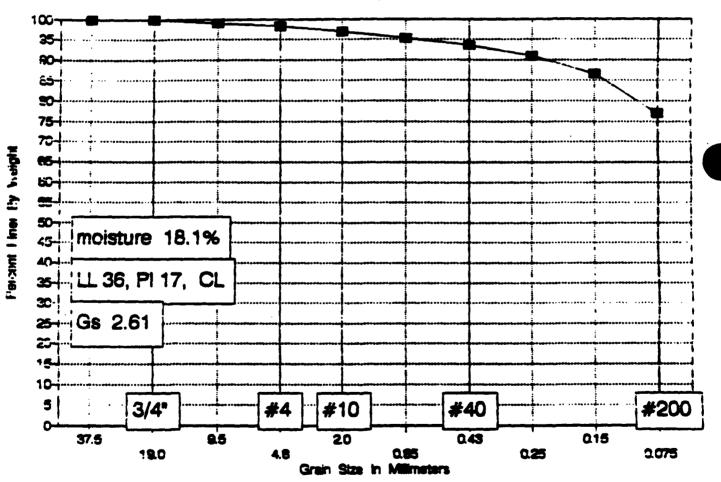
DISH	DISH	SEVE	WEGHT	ACCUMULATIVE WEIGHT	ACCUMALATI	Æ PERCENT
NAMBER	MOER WEIGHT NU		RETANED	RETANED	RETANED	FINER
	·	3		0		
	·	Sept. 1		62.1		
•		3/4		62-1		
		3/8*	-	77-5		
		#4		852		
·		PAN		·		
		TOTAL				

				ACCUM	COURT ACCUMULATIVE PERC		ZENT
DISH NUMBER	DISH	SEVE NAMER	WEGHT	WEIGHT	na.	TRAL	TOPAL
	<u></u>				RETAMED	FNER	A CR
		#10		94.3		·	
·		#20		1012			
		#40		109-5			
		#6 0		114.3			
		#100		1220			
		#200		145.0			
		PAN					
		TOTAL					

RBERG LIMITS TEST DAT							J0	B N	:. <u> </u>	IN E R		PY	1	力!	רוכ		OΓ	17:	Ţ
EL CLASSIFICATION								CATI	LON										_
084T08Y 0448S18 04T104								50	RING	5	3-2	6s	AMPL	e C	00	ם כ	DEPT		
FIELD DENSITY ST	//.	 .										-		-		•			
DETERMINATION	1			2] [DETE		AT IO	N				1				2	_
NUMBER OF RINGS] [DISM	_											
WT OF RINGS + WET SOIL] [WT DI	F DI:	5H +	WET	SOI	,							
WT OF RINGS			Ι.			1 1.	WT 01	01	\$# +	ORT	501						_		_
WT OF WET SOIL							wT 0	F MO	ISTU	RE									_
FIELD DENSITY						.	WT 0	01:	S H				-		_		_		_
DRY DENSITY			<u> </u>		•	J L	#T 0	DR	T 50	11		_				\perp			
THIS IS AN 1/8-IN						ıL	FIELD	MO1	STU	RE C	ONTE	1							
PLASTIC LIMIT BY WE.	9,169	2					*	-6	m	Val	1	4	ar	nr.	de		Q1	zaı	J
DETERMINATION	1		I_{-}	2			3				4			_ {			U	6	_
DISH	AL		$\perp \mathcal{F}$	1	24														
WT OF DISH + WET SOIL	100	29		الم	61			••••••											
WT OF DISH + DRY SOIL	9.6	21	Ι,	10.	14	_		_				.	_		_		_		_
WT OF MOISTURE	***********	·		 _		<u> </u>						_							****
WT OF DISH	1.4	<u>4</u> _	.	<u> </u>	L	_		_	l			.	-		_		_		
WT OF DRY SOIL			╄		70	<u> </u>		_	╄-							4			_
MOISTURE CONTENT	16.8	21		0.	02		<u> </u>		1_			i							
IQUID LIMIT										K	= +	طه	<u>le</u>	fac	tok	٤	W,	y= r	7
DETERMINATION	1		Λ	2			3		1		.			5				6	
DISH	25		$\perp x$	4	14	Ĺ XÌ	لما	2 <u>.Y</u>	1	0	nl	丌	<u>ex</u>	<u> 10.</u>	10	独			
NUMBER OF BLOWS	25		 	/-		<u> </u>		<u>/</u> _	_						<u>+</u> -	21_			
WT OF DISH + WET SOIL		00	 	7	/	ļ	\mathcal{A}	******	_		2	24	'	12	-	4	4		
WT OF DISH + DRY SOIL	10.	19	1 -	_Х		-	Ą	-	1.			_	. , –		– 、		بـــــــــــــــــــــــــــــــــــــ		-
WT OF MOISTURE		,	- 	#	}		<u>/</u>	/	┼		_		_		M)	_			
WT OF DISH	گھل۔	<u>4</u>	1 /		4	/	1.4	-\					7.1	9	19	י קי	_		-
MOISTURE CONTENT	19.0	21	+/-		- +	/			4			\dashv		.9	<u> </u>	╁	—		_
	1-7.	<u> </u>	У					_	<u> </u>							—-			
					0	10	2	0) 3	101	110	L P		i0		0		0	
FLOW CURVE					PLAS	Ticr	TY (CHA	RT										Ĺ
				-												C	н		
																			Γ
! !	+-	+	\vdots	-		1				Ι-								1	Γ
 	+-	+	\div	\div	-	+-	-		-	\vdash	-	 		 			 	+-	\vdash
				\dashv	┝╌┼╴				-	_	CL	-	-	 		-	┼	├—	┞
				-							<u> </u>	<u> </u>	1			<u> </u>	ـــ	igspace	L
	_			•	i 1	1													
							_										-		٢
					+	十				١.		1		•		WH 1	ė o	H	l
				-	+						\vdash	_	_	-	•	1	-	 	┝
			+						gg.	MI		OL-			8			<u> </u>	L
		5 30		:			K		<i>///</i>	MI		OL-			8	-			

ML

Site SB-26-009, Sample at 0 to 3 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-26-009	Wt soil and dish	241.3
		Dry soil & dish	220.7
Depth	0-3 feet	Dish	107.1

Moisture Content = 18.1

SIEVE ANALYSIS

Dry weight of total sample= 113.6

Sieve Size	Weight Retained	Piner	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	Ō	100.00%	100.0	19.0
3/8 inch	1.1	99.03%	99.0	9.5
8 4	2	98.24%	98.2	4.8
# 10	3.6	96.83%	96.8	2.0
# 20	5.4	95.25%	95.2	0.85
# 40	7.4	93.49%	93.5	0.43
# 60	10.2	91.02%	91.0	0.25
# 100	15.1	86.71%	86.7	0.15
# 200	26.2	76.94%	76.9	0.075

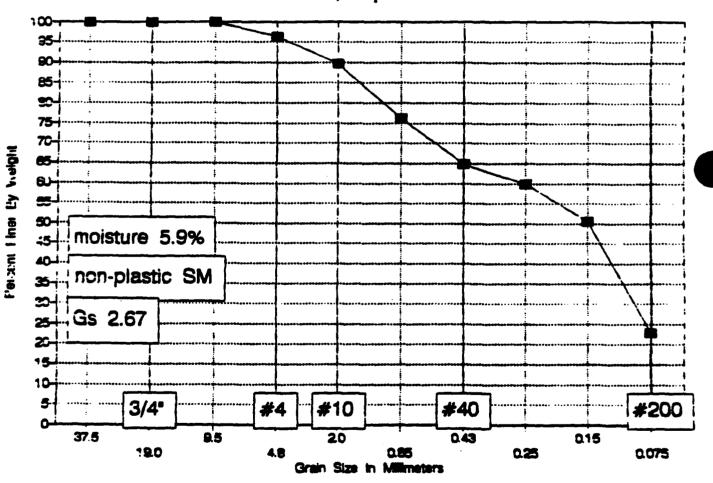
		af un monteon	nerry
G 68-26	SAMPLE	009 DEPTH _	0-31
NUMBER OF RINGS	har	OISH	306
WT. OF RINGS & WET SOL	0/	WT. OF DISH & WET SOIL	241.3.
WT. OF RINGS		WT. OF DISH & DRY SOIL	1 2207
	,		
WT. OF WET SOL		WT. OF MOISTURE	
		WT. OF MOISTURE WT. OF DISH	1071
WT. OF WET SOL			::J:O:Ŧ.)::

DISH NUMBER	DISH WEGHT	SEVE NAMER	WEGHT METANED	ACCUMALATIVE WEIGHT RETAINED	ACCUMULATIVE PERCENT		
					RETUNED	MER	
		3"					
	·	1-1/2					
·		· 3/4°		D			
•		3/8-		11.1			
		#4		2.0			
		PAN		·			
		TOTAL					

	ł	SEVE NAMER	WEIGHT RETAINED	ACCUM. WEIGHT RETAINED	ACCUMULATIVE PERCENT			
	WEIGHT				PARTIAL		TOTAL	
					REDANCED	PAGE		
		#10		3.6		·		
		#20		5.4				
		#40		7.4				
		#60		10.2				
		#100		15.1				
		#200		26.2				
		PAN						
		TOTAL						

TERBERG LIMITS TEST DA Field Classification			CLIENT	CONER		و الروسية
LEGIPATORY CLASSIFICATION			EO#	- 6 1/Caner On RING 20-26s	AMPLE _QC	D CEPTH .
DETERMINATION	1	2	CETERMINA	17 10N	1	7 2
NUMBER OF RINGS	 		015H			
WT OF RINGS + WET SOIL	1		WT OF DIS	H - WET SOIL		
WT OF RINGS	***************************************	············	WT OF DIS	H + DRT SOIL	**************************************	-
WT OF WET SOIL	-		eT OF NOT	STURE		
FIELD DENSITY	 		WT OF DIS	in		
DRY DENSITY			WT OF DRY	SOIL		
PLASTIC LIMIT OF LAF			FIELD MOI	STURE CONTENT		
DETERMINATION	1	2	3	4	5.	6
DISH	AL123	AU122				
WT OF DISH + WET SOIL	17:03	15.00				
WT OF DISH + DRY SOIL	14:52	12.79				
WT OF MOISTURE						
WT OF DISH	1.4	1.4				
WT OF DRY SOIL						
MOISTURE CONTENT	19.13	9.40	V=19			
LIQUID LIMIT						
DETERMINATION	1	2	3		5	6
01 SH	36	AL92	AL 131			
NUMBER OF BLOWS	2+	20	15			
WT OF DISH + WET SOIL	12.24	11.90	2.92			
WT OF DISH + DRY SOIL	9.41	9.03	9.76			
WT OF MOISTURE	ļ		ļ			
WT OF DISH	14	1.4	1.4] [
WT OF DRY SOIL		A 2 2A	AA A A	<u> </u>		
MOISTURE CONTENT	35.33	3+.09	37.80	<u> </u>	 	
		• • • •	to 20	LIQUID LII 30 40		60 70
FLOW CURVE		┷╇┷╇	TICITY CHA	RT		\bot \bot
; ;		; ; ;				CH
						111
		: : - -	+		1	/
				CL	117	
29						
20 1	VIII.			14.37	MIT	
36 37 36	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ 		 		1 1 1	MH & OH
36	1	- - - 	╅╾┼╾┼╾┤		╂╼╂╼┼╼	
5	113		WCL-ML	ML & OL	 	 - - -
	فليشيلين					111
74 5 7 10 15 NUMBER OF	.70 25 30 F BLOWS	40 90				
SUMMARY					•	
#31531065		IT PLASTIC LI	MIT PLASTICE	TOENT IFICAT	100	
DAY DENS ITY CONTENT	LIOUID LIM	IT IPLASTIC				

Site SB-26-013, Sample at 0 to 3 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-26-013	Wt soil and dish Dry soil & dish	229.7 223
Depth	0-3 feet	Dish	108.9

Moisture Content = 5.9

SIEVE ANALYSIS

Dry weight of total sample= 114.1

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	4.08	96.428	96.4	4.8
# 10	11.77	89.68%	89.7	2.0
# 20	27.15	76.21%	76.2	0.85
# 40	40.18	64.79%	64.8	0.43
# 60	45.69	59.96%	60.0	0.25
# 100	56.31	50.65%	50.6	0.15
# 200	88.02	22.86%	22.9	0.075

MECHANICAL ANALYSIS

OB NUMBEROCATION	OWNER/CL	ENT LIMITAL S	-i.i.f
ORING <u>GB-26</u>	SAMPLE _	012 DEPTH.	0-3'
NUMBER OF RINGS	1237	DISH	20
WT. OF RINGS & WET SOL	U	WT. OF DISH & WET SOIL	229.7-
WT. OF RINGS		WT. OF DISH & DRY SOIL	223.0
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	[009]
DRY DENSITY		WT. OF DRY SOL	
		FIELD MOISTURE CONTENT	5.9

DISH	DISH	SEVE	WEGHT	ACCUALLATIVE WEIGHT -	ACCUMULATIV	VE PERCENT
NUMBER	WEGHT	NUMBER	RETAINED	RETAINED	RETAINED	ANER
		3*				
		1-1/2"				
·		· 3/4°				
		3/8*		0		
		#4		4.00		
		PAN		·		
		TOTAL				

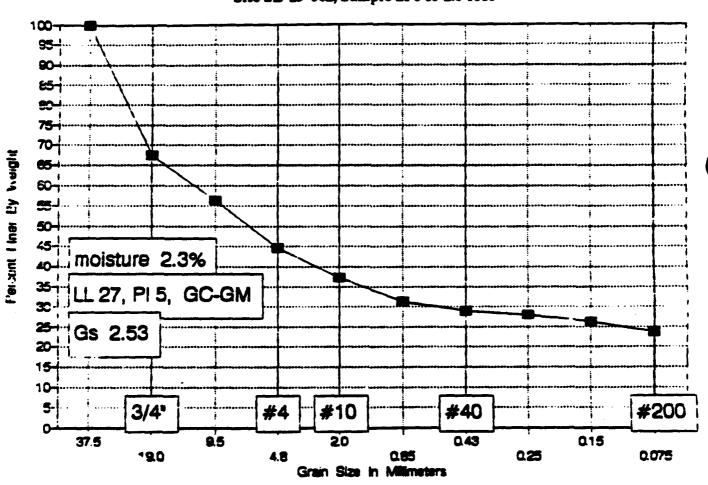
				ACCUM	A	COMMUNITYE PER	ICENT
DISH NUMBER	WEIGHT	SEVE NUMBER	WEGHT	WEGHT	PAS	TTAL	TOTAL
				REPARED	RETANED	rner	MER
		#10		11.77			
		#20		27:15			
		#40		40.18			
		#60		45.69			
		#100		56.31			
		#200		27:15 40.18 45.69 56.31 88.02			
		PAN					
		TOTAL					

DP4TORY CLASSIFICAT	24							20	RING	Z-2	16s	AMPLE		13	DEPT
TELD DENSITY :		-//-	- ·												
DETERMINATION		1	-		2	7	DETE	RMIN	TION				1		
NUMBER OF RINGS							0151	H							
WT OF RINGS + WET	SOIL					7	wī (of DIS)H + W	ET SO	it.				
WT OF RINGS		*****		********	*********		WT (OF 015	SH + 0	RY 50	i L				
WT OF WET SOIL			_			1	wT (0F M0	STURE			_		-	_
FIELD DEMSITY						7	WT (OF 01:	5 M						
DRY DENSITY							w1 (F 081	501L					-	_
THIS IS AN	1/8-INCH	THREA	•				FIEL	LO MO1	STURE	CONT	EMT				
LASTIC LIMIT BY	WF.G	250	2									-			
DETERMINATION		1			2		3						5		
DISH		AL:	12		. 1 6	+			1	Thi	• , ,,	<i></i>		HAZ	
WT OF DISH + WET S	211	4			14				101	TIK		in			140
WT OF DISH + DRY S		12:			94		**********		 	********	100	V V	el y		
WT OF MOISTURE		150		1.7				-	-		-	_		-	_
WT OF DISH		1.4	<u> </u>	T	4		********		╅┈┈	*****			72)
WT OF DRY SOIL								_	-		-	-		-	-
MOISTURE CONTENT		17.5	3 1	13	E 4	. =	J=1	0	+					-+-	
		11.			-77		<u> </u>	<u></u>	<u></u>						
IQUID LIMIT						- 10									
DETERMINATION	-	- / 1	/_		2	Д	3		4	4		.	5	-	
DISH		\leftarrow	-/	- A T	20	44	4	04			204			T 42	10-t
NUMBER OF BLOWS	 +-	\ -	/	- +	/-	+-		-/-	 		-, }		41	KLT!	
WT OF DISH + WET S		//	<u></u>	———	. / -		/	/	 		-14	_		OYI	4
WT OF MOISTURE		\rightarrow	-	_	_	.] .	$\overset{\cdot}{\times}$	_	-		-		25	7	
WT OF DISH		/1.4	/	/	<u>A.</u>		7	/	 	·					
WT OF DRY SOIL		ح.ب/	1	- /1	ىعا		1.4	<u> </u>	-		-	_		-	-
MOISTURE CONTENT			-	/		$\forall \forall$			\ 	-				-	
	Y					_ V /			м					<u>_</u>	
					0	10		20	L 1 30	0 1 D	L 40	1 I T 50)	60	
FLOW CURVE	•	11	\top		PL	ASTIC		_	RT		Τ				Π
	•	† †			1	1	+-	1		+-	\top	-	\dashv	+	
 		┼-┼	+-	+ +	+-		+-	╁╌┤			┼╌	 	+	+	-
		$\vdash \vdash$			4-4	$\bot \bot$			1		┼	\sqcup	4		1
	<u>:</u>													ماء	1
		1 T								Cr					
:	<u>:</u>	1 1			1				1	\neg	\top		7	1	T
		++	+		+		+-	+			+	1	\dashv	+-	+-
1 • •	- 	 			4-4	-	+	-	-	4	\swarrow		\dashv		
										\mathcal{L}				MH	* 0
		1 T				7	201	ML//				7	T		
											Or.				

18

NP

Site SB-29-002, Sample at 0 to 2.5 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-29-002	Wt soil and dish	282.6 278.7
Denth	0-2.5 feet	Dry soil & dish Dish	106.2

Moisture Content = 2.3

SIEVE ANALYSIS

Dry weight of total sample= 172.5

Sieve Size	Weight Retained	Finer	t Finer	Sieve opening mm
1.5 inch	0	100.00\$	100.0	37.5
3/4 inch	56	67.54%	67.5	19.0
3/8 inch	75.6	56.17%	56.2	9.5
# 4	95.3	44.75%	44.8	4.8
# 10	108.4	37.16%	37.2	2.0
# 20	118.5	31.30%	31.3	0.85
# 40	122.6	28.93%	28.9	0.43
# 60	124.5	27.83%	27.8	0.25
# 100	127.3	26.20%	26.2	0.15
# 200	121 0	22 509	23 6	0.075

GA

MECHANICAL ANALYSIS

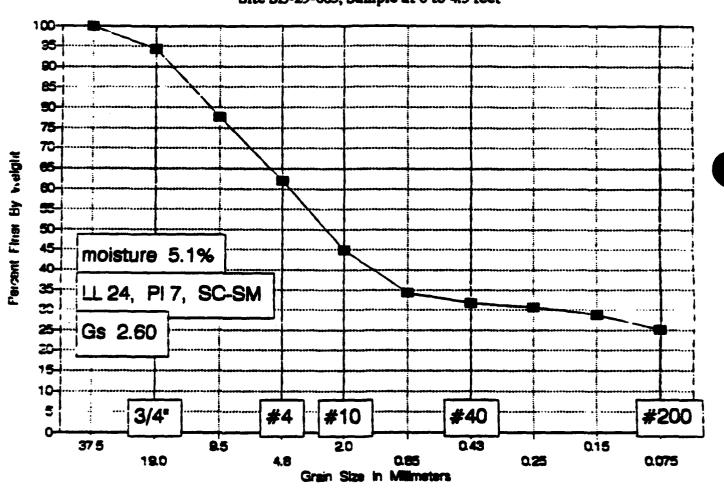
DATE 9/3/92 JOB NUMBER -6061		as um montgor	nezy (
BORING	SAMPLE	002	0-25'
NUMBER OF RINGS	bacr	DISH	309
WT. OF RINGS & WET SOL	0 /	WT. OF DISH & WET SOL	292.6
WT. OF RINGS		WT. OF DISH & DRY SOL	2787
WT. OF WET SOL		WT. OF MOISTURE	
FELD DENSITY		WT. OF DISH	1 106.2
DRY DENSITY		WT. OF DRY SOL	1
	· · · · · · · · · · · · · · · · · · ·	FIELD MOISTURE CONTENT	2.3
WASH SIEVE DRY SIE	VE	WEIGHT OF OVEN DRY SOL	(grams

DISH	DISH	SEVE	WEGHT	ACCUMULATIVE WEIGHT	ACCUMULATI	VE PERCENT
NUMBER	WEGHT	MARKER	RETANED	RETAINED	RETAINED	ANER
		3*				
	·	1-1/2				
•		· 3/4°		56.0		
		3/8-		56.0 75.6		
	·	#4		95.3		
		PAN		·		
		TOTAL				

				ACCUM	A	CUMULATIVE PEN	CENT
DISH NUMBER	WEIGHT	SEVE NAMEER	WEGHT	WEIGHT	PAR	TIAL	TOTAL
					RETUNED	FNER	MER
		# 10		108.4		·	
		#20		118.5			
		#40		133,6			
		#60		1245			
		#100		127.3			
		#200 ·		131.8			
		PAN					
		TOTAL					

LABOPATORY CLAS	AT10N Sification _								80	RING'	202	9 s	AMPL	E [<u>0</u> 2	_ 01	EPTH	Û
FIELD DENS	ITY 51	/	/ ·															
DETERMINAT	34		1			2	7	01	ETERMIN	AT ION				1		T		2
NUMBER OF	INGS						7	0	ISH									
WT OF RINGS	+ #ET 501L								T OF DI	5H +	WET SO	L				7		
WT OF RINGS		************	********						OF D1	5H +	ORY SO	ľ	-					
WT OF WET	01 L			'			1		T OF MO	STUR	E		_		_			
FIELD DENSI	TY								T OF D1	5 M			_			T		
DRY DENSIT									F OF DR	7 501	L							
	15 AN 1/8-INC							F	ELD #0	STUR	E CONTE	NT						
PLASTIC LIM	17 07 LAF.	7,6/	22			_	_			-22				<u> </u>				
DETERMINATI						2	Т		<u>— ش</u> 3	77	<u> </u>		\overline{u}	-	p	-		<u>-</u> -
DISH	-	A-				121	╅	_		十			_			┿		_
WT OF DISH	+ WET SOIL		3 2		7.6		+			 		一				+		
WT OF DISH		******	7 <u>4</u> 24	·····•	***	06	+	******		 			•	******	*******	+-	-	
WT OF MOIST		<u> </u>	<u>-</u> I		ننت	<u> </u>		_		'		-	-		_			_
WT OF DISH		1.4	4		1.4	4_	_		**********	†	**********					1		
WT OF DRY S	01 L							_		1.		-	_		_	'	_	
MOISTURE CO	NTENT	22.	31		73	00	7	X =	23						-	1		
LIQUID LIMIT																		
DETERMINATI	04	1	l .		2		V		3	·	4			5		T	6	
DISH		AL	\prod		AL	-10 7	FL.	1	2		On	W	U	70	U6	h		
NUMBER OF B	LOWS	70	<u> </u>		13)		\overline{I}			4	W	r	L	Ю	12_		_
WT OF DISH	+ WET SOIL		79		9.0			\overline{I}						ok				_
WT OF DISH	+ DRY 501L	À	20	1	王:	34			X			.			_	Ι.		
WT OF HOIST	URE	*********							/							1_		
WT OF DISH		4.	4_	-	1.4	<u>Ł</u>		Д.	4\].		- 1	_		_	,		
WT OF DRY S	011	<u> </u>		4-	~~		4/		$-\!$	<u> </u>						_		
MOISTURE CO	NTENT	26	96		20	79	/											
										L	1 QU 1 D	LII	4 I T					
		<u></u>	т –			0	10		20	36			- 5	•	-	0	70	
FLOW CL					1		1571		Y CHA	RT		↓					_	
																CI	<u>• </u>	
				1													1	
= ;	1	1			1		1	Ť								7		
C O M T E M T	 				 	-	十	+				+-		-	2/12		\dashv	
					H	\vdash		\dashv			CL	┼—	-	<u> </u>		\dashv	-+	
~ 29				·	Ŀ			\downarrow									\rightarrow	_
20	10																	
29 28 27		7			:		П	П				1				411 4	ЮН	$\overline{}$
* 27	 	+	D	V	1:	1 1			$\overline{}$				\vdash				寸	
26		+		 	7	╂╼┼		QCI	-(41-//		-ML &	OL.	┢╌	-	Н		┽	
25	10 15	بيلا	25 X	עיע		<u> </u>				Щ	l	<u> </u>						
		BLOW		•														

Site SB-29-005, Sample at 0 to 4.5 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-29-005		Wt soil and dish Dry soil & dish	258.8 251.6
Depth	0-4.5 feet	•	Dish	109.7

Moisture Content = 5.1

SIEVE ANALYSIS

Dry weight of total samples 141.9

Sieve Size	Weight Retained	Finer	t Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	8.1	94.29	94.3	19.0
3/8 inch	31.7	77.66%	77.7	9.5
# 4	54	61.95%	61.9	4.8
# 10	78.1	44.96%	45.0	2.0
# 20	93.3	34.25%	34.2	0.85
# 40	96.9	31.71%	31.7	0.43
# 60	98.4	30.66%	30.7	0.25
# 100	101	28.82%	28.8	0.15
# 200 # 200	106.3	25.09	25.1	0.075

MECHANICAL ANALYSIS

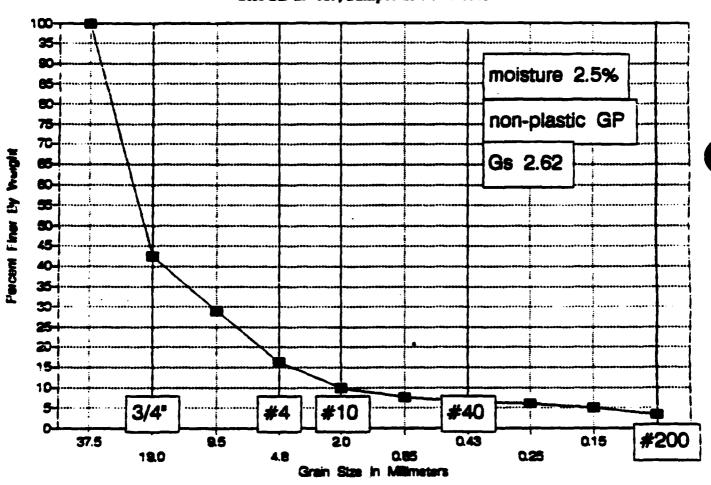
DATE <u>9 3 92</u> JOB NUMBER <u>-6061</u> LOCATION	BY	af nt_limmontain	nery
BORING <u>GB-29</u>	SAMPLE	005 DEPTH	0-45'
NUMBER OF RINGS	haar	DISH	200
WT. OF RINGS & WET SOL		WT. OF DISH & WET SOL	258.8
WT. OF RINGS		WT. OF DISH & DRY SOL	251.6
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	1 109.7
DRY DENSITY		WT. OF DRY SOL	
•	·	FIELD MOISTURE CONTENT	5.
WASH SIEVE DRY SIE	VE	WEIGHT OF OVEN DRY SOL	(grams)

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULATIN	E PERCENT
NUMBER	WEGHT	NAMER	LAGER RETAINED	RETANED	RETAINED	FINER
		3"				
	·	1-1/2"	^	C		
·		· 3/4°		8.1		
		3/8*		31.7		
		#4		54.0		
	•	PAN		·		
		TOTAL				

DISH	DISH			ACCUM		THE THE	
NAMER WEIGHT	SEVE NAMBER	WEIGHT	WEGHT	PAR	TAL	TOTAL	
			<u> </u>	1230	RETAINED	FRER	
		#10		78.1		·	
		#20		93.3			
		#40		96:9			
		#60		9B.4			
!		#100					
		#200		101.0			
		PAN				-	
		TOTAL					

	IBERG LIMITS .i clascificat					. 				571, 108	NG. Ent/ atio	 0wn E n	- 6 • J	060 M	m	Y)i	17%	رانح	اح	<u>つ、</u>
1	PATORY CLASS! I eld Densit	·									80 R (ng-J	2 -2	9 s	MPL	.£ _{	20	5 01	PTH	\mathcal{C}
	DETERMINATION			1			<u> </u>	7		ETERN	INAT	104						-		
	NUMBER OF RI			<u> </u>		<u> </u>		┥.	-	ISH						_ <u>.</u>				
	WT OF RINGS							+	-		DISH	- WE	T 501					+		_
	WT OF RINGS							-			——		Y 501					+-		
	WT OF WET SO				·					T OF				[-	_	-	-		_
	FIELD DENSITY				一十			-	1	T OF	DISH			-						
	DRY DENSITY				-+-			┥		T OF		SOLL			-			ı		_
		S AN 1/8-IN	CH THR	AD -					-				CONTE	MT				+-		
Pi	LASTIC LIMIT	or LAF.	9,0,	92					<u> </u>							—.				
	DETERMINATION			1			?	4		3			<u>*</u>			5		<u> </u>		
	DISH		AL			<u>AL</u>		4										+		
	WT OF DISH +			20			ŢĮ.			********										
	WT OF DISH +		14.	9	'	11.	66				.	_		-	_		_	,		
	WT OF MOISTUR	Ε						_ _	******	*******										
	WT OF DISH			.4	1	4	4	1			.	_		-	_		_			
	WT OF DRY SO		. ~	45			A /	+		-	_									
	MOISTURE CONT	ENT	17	47		土土	46		X:	= 13				1				1_		_
LI	QUID LIMIT																			
	DETERMINATION			1			2	\perp		3			4			5				
	DISH		_6		4		114	-1		9								1_		
	NUMBER OF BLO	WS.		52_		19		4		9	_			_4				1_		
	WT OF DISH +	WET SOIL		1.7		12.	2			1.9	_									
	WT OF DISH +	DRY SOIL	9	20	,	10.	<u>or</u> .		2	.74	?	_		- 1	_		_	Ι.		
	WT OF MOISTUR				_				······		ļ.	······						4		
	WT OF DISH			4		ىك	4			<u>.4-</u>	.	_		- 1	_		_			
	WT OF DRY SOI			-	+	~ 4	 _	4	~									+-		
	MOISTURE CONT	ENT		.87		24.	12		2	.82										_
,			_ .	,	٠.,		0	10	$\overline{}$	20		JO (010	L 1 P		ю		<u> </u>	~	
	FLOW CUR	VE !				<u> </u>	PL	ST	CIT	Y C	HAR	7							\bot	
	:	;			•	<u>]:</u>									L			C		
	•					1:													J	
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		-	_	T	-	+	1-	一	_	\dashv	+	+	\top	 		1			1	\dashv
				╁╌┤	+	++	1-1	-	-+		+	+-	+-	+	-	┼—		14	+	
326				$\perp \perp$		 	1	-		_	4	4	Cr	 	<u> </u>	_	/		4	
525		<u> </u>			:	<u> </u>										1				
2 2			0				\Box	$\neg \top$		T									T	
= 24				abla		1:	\Box	1	_	+	+	+	1	1	\vdash	T		HH 8	O M	
23			-+-	+	5÷.] 	┝╌┤	-		士	\wedge	+	4	-	-	┼	⊢			
22					\cong	> -			<u>//</u> C	L-M	11111	4.	i AL &	OL-	 	1	 _	├ ─┤		
21		<u> </u>	بيلير	ليلا	ىنىيا	<u> </u>					7									
ٔ بیر	5 7 6	IS IUMBER OF	.70 BLOW	25 X)	40	30													
SU	MMARY			•										_	_		_			_
1	DAT DENSITY	WOISTURE CONTENT	1.10	ו פוע		PLAS	TIC I	,1811	'	LAST	EIY	10	ENTIF	ICATI	011					
				74		1	17		1			\dashv	11.	m	7					

GRADATION CURVE Site SB-29-013, Sample at 0 to 5 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-29-013	Wt soil and dish	323.1
Depth	0-5 feet	Dry soil & dish Dish	318 111.7

Moisture Content = . 2.5

SIEVE ANALYSIS

Dry weight of total sample= 206.3

Sieve Size	Weight Retained	Piner	\$ Finer	Sieve opening nm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	118.7	42.46%	42.5	19.0
3/8 inch	146.6	28.94%	28.9	9.5
ŧ 4	172.7	16.29%	16.3	4.8
# 10	185.6	10.03%	10.0	2.0
# 20	190.9	7.46%	7.5	0.85
# 40	192.5	6.69%	6.7	0.43
# 60 .	193.8	6.06%	6.1	0.25
# 100	196	4.99%	5.0	0.15
# 200	100 6	2 255	3 3	0.075

MECHANICAL ANALYSIS

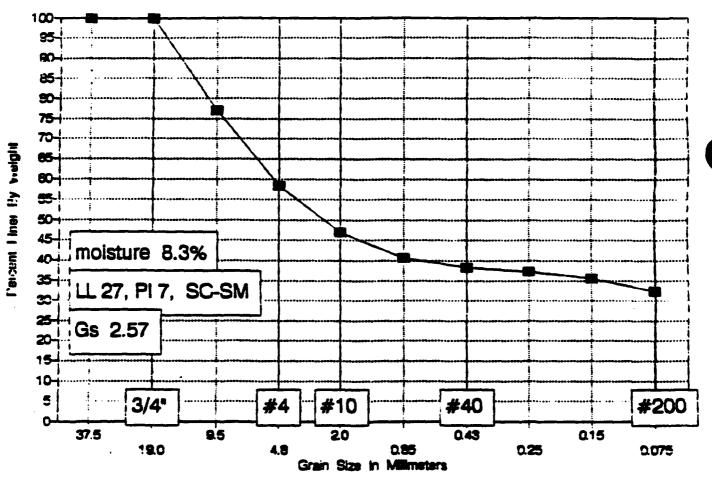
DATE 9692 JOB NUMBER6081 LOCATION	BY	AF Ent_UM Montacin	rery	
BORING <u>GB-79</u>	. SAMPLE	013 DEPTH _	0-5'	
NUMBER OF RINGS	Mag	DISH	302	
WT. OF RINGS & WET SOIL WT. OF RINGS		WT. OF DISH & WET SOIL WT. OF DISH & DRY SOIL	318	
WT. OF WET SOIL FIELD DENSITY		WT. OF MOISTURE	111177	
DRY DENSITY	<u> </u>	WT. OF DRY SOIL FIELD MOISTURE CONTENT	2.5	
	3 <i>6</i> 5	WEIGHT OF OVEN DRY SOL	· · · · · · · · · · · · · · · · · · ·	1

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULAT	IVE PERCENT
NUMBER	WEGHT	NAMBER	RETAINED	RETAINED	RETAINED	PINER
	,	3*				
	·	1-1/2"				
•		· 3/4°		118.7		
		3/8-		146.6		
		#4		172.7		
		PAN		·		
		TOTAL				

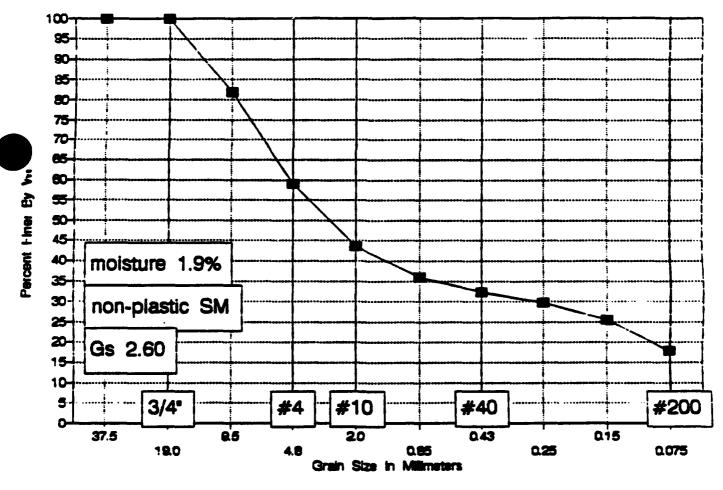
				ACCUM	A	COMPLATIVE PE	RCENT
OISH DISH MANGER WEIGHT	OISH WEIGHT	SEVE NUMBER	WEIGHT	WEDNED	PNF	ITIAL	TOTAL
					RETANED	THER	rner .
		#10		185.6		·	
	•	#20		190,9			
		#40		1925			
		#60		1938			
		#100		1960			
		#200		196.0			
		PAN					
		TOTAL					

ELD CLASSIFICATION	TA			3	DB NG LIENT	/044EF		m	2	WII!	oCi	12	Z
					OCATI	ON							
FIELD DENSITY 37					808	ING S	يدر	SAMP	LE F		CEPI	r+ _C)- -
DETERMINATION	1 1	1	2	DET	RMINA	TION		7				2	_
NUMBER OF RINGS	 	+		015				+				•••	
WT OF RINGS + WET SOIL		 		07	0F 015	H - WET	501 L	\dashv					
WT OF RINGS		 	. 		OF DIS	H + DRY	SOIL						-
WT OF WET SOIL		 -		1 1	OF MOI	STURE	********				_		-
FIELD DENSITY				W7 (OF DIS	H			*************************************				
DRY DEMSITY				97	F DRY	SOIL	********			-	_		_
THIS IS AN 1/8-IN PLASTIC LIMIT BY LOF.				FIE	D W01	STURE C	ONTEN	r					_
DETERMINATION	1		2 /	3		T	4		5	. 7		6	_
DISH	103/	AL	133		CC	VI	n	0#	H	Re	20		_
WT OF DISH + WET SOIL								uha					_
WT OF DISH + DRY SOIL		Z	\mathcal{L}						7				_
WT OF MOISTURE	λ		<u> </u>										_
WT OF DISH	1.4	<u> Y.</u>	<u> </u>		_			Ι.		_			_
WT OF DRY SOIL				<u> </u>									_
MOISTURE CONTENT	<u> </u>	<u> </u>	$oldsymbol{}$	<u> </u>		<u> </u>		Щ.					
LIQUID LIMIT													
DETERMINATION	1		2	3			4		5			6	
DISH	JAL 77	JAL	122/	65	J		20L		no	1	20		_
NUMBER OF BLOWS				7			1	de	94	ite			
WT OF DISH + WET SOIL		1					2	Au	<u>ع او</u>	OUK	壮_		بجنس
WT OF DISH + DRY SOIL	-X-	$ \rightarrow \rangle$	←	- 	_			.	(7)	2)	_		-
WT OF DISH	1.4	 /-	4	1	/	}		+-					
WT OF DRY SOIL	71.5	<i>/</i> //-	\Rightarrow	/1.4	7			•		-	_		-
1 0. 0 00.0	/	/	- +	/	/	}		+					
MOISTURE CONTENT								LINIT			-	70	
MOISTURE CONTENT			^	••	200	F i di	J 1 U			40		70	Γ
FLOW CURVE	111		PLAS	IIO	ZHA!	30			90	60	T	T	
FLOW CURVE	$\overline{+}$			T 1		30	H				CH CH		Τ
FLOW CURVE		+++		T 1		30	40				I		K
FLOW CURVE				T 1		30					I		
FLOW CURVE				T 1		30			50		I		
FLOW CURVE				T 1		30	Cr Cr		50		I	2	
FLOW CURVE				T 1		30			50		I		
FLOW CURVE				T 1		30			50		I		
FLOW CURVE				T 1		30			50		ČŠ .		
FLOW CURVE				T 1		30			50		I	 	
FLOW CURVE				T 1	CHA	RT	Cr Cr		50		ČŠ .	 	
FLOW CURVE				PTICITY	CHA	RT	Cr Cr		50		ČŠ .		

Site SB-29-018, Sample at 0 to 5 feet



Site SS-28-008, Sample at 0 to 0.2 feet



DETERMINA DISH WY OF DIS WY OF DIS WY OF DIS WY OF DIS	SH - WET SOIL STURE SH T SOIL STURE CONTENT A LIA MOT LIGAT COUL	SAMPLE DO	TOEPTH Q
OETERMINA DISH WY OF DIS WY OF DIS WY OF DIS WY OF DRY FIELD COL	ATION SH - WET SOIL SH - WET SOIL STURE SH T SOIL STURE CONTENT A COUL	s. HYPe dy)	and 6 Get
OETERWINA OISH WY OF OIS WY OF DIS WY OF MOI WY OF ORY FIELD 221	SH - WET SOIL SH - ORY SOIL ISTURE SH T SOIL STURE CONTENT A COUL	s. HYPe dy)	and 6 Get
OISH WY OF DIS WY OF DIS WY OF MOI WY OF DRY FIELD SOI 3 COL	SH - WET SOIL STURE SH T SOIL STURE CONTENT A LIA MOT LIGAT COUL	s. HYPE dy)	an 6 Get
WT OF DIS WT OF HOI WT OF HOI WT OF ORY FIELD 201	STURE CONTENT A COUL	three dy) s d not deavas	an
WY OF DIS WY OF MOI WY OF DIS WY OF DRY FIELD COI 3 COX	STURE CONTENT A COUL	three dy) s d not deavas	an
WY OF MOI WY OF DIS WY OF DRY FIELD SO!	STURE SH T SOIL STURE CONTENT A VLA MOT (GAR ———————————————————————————————————	three dy) s d not deavas	an
TOF DIS	SH I SOIL STURE CONTENT A VIA 110+ (GAY	three dy) s d not deavas	an
FIELD SOI	STURE CONTENT A VIA MO! (Gar ——— COUL	three dy) s d not deavas	an
3 	A COUL	three dy) s d not deavas	an
3 CO	vid not igar	three dy) s d not deavas	an
700 AL-100	LIA MOH	three dy) s d not deavas	an
700 AL-100	LIA MOH	three dy) s d not deavas	an
3 AL-100		dy) s d not deava	Get F&
AL 100	COUL	s d not deavas	get L
AL 100	COUL	d not deavar	get L
AL 100	COUL	d not deavar	get L
AL 100	COUL	d not deavar	get L
AL 100	COUL	d not deavar	get L
AL 100	COUL	d not deavar	get L
AL 100	COUL	d not deavar	get L
AL 100	COUL	d not deavar	get L
X		ow cou	12
1.4	- A		ht.
1.4	b		<u>/h+</u>
1.4		(25)	
1.4		<u> </u>	1
(1.4-)			
	}	<u> </u>	
	<u> </u>	<u> </u>	
20	30 40 FIÓNID FI		60 70
ITY CHA	RT		
			CH
111		+++	
	┝═╃╼┼╌┼╌		
4-4-4	CL	117	
		444	
			MH & OH
CL-ML			
		<u>, t t t</u>	
PLASTICI	POENTIFICA	• • • •	
			CL WILLIAM ML & OL

MECHANICAL ANALYSIS

JOB NUMBER	BYLAF OWNER/CLENTUMMONTGC	merv
LOCATIONBORING		<i>)</i>
BORING <u>55-27</u>	SAMPLE 007 DEPTH _	0-0.2

NUMBER OF RINGS	caar,	DISH	202
WT. OF RINGS & WET SOIL	0/	WT. OF DISH & WET SOIL	324.7
WT. OF RINGS		WT. OF DISH & DRY SOL	318.0
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	005
DRY DENSITY	/	WT. OF DRY SOIL	
		FIELD MOISTURE CONTENT	. 3.2

WASH SIEVE ______ DRY SIEVE _____ WEIGHT OF OVEN DRY SOIL _____(gra

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULATI	IVE PERCENT	
NUMBER	WEIGHT	NABER	RETAINED	RETAINED	RETAINED	ANER	
· · · · · · · · · · · · · · · · · · ·		3*					
		1-1/2					
•		· 3/4°		0			
		3/8*		54.8			
		#4		91.8			
		PAN		·			
		TOTAL					

				ACCUM	^	ACCUMULATIVE PERC			
DISH NUMBER	DISH WEIGHT	SEVE NUMBER	WEIGHT	WEGHT WEGHT GASTIAL	MAL	TOTAL			
				, esset	RETAINED	FNER	PNER		
		#10		110.7					
		#20		122.8					
		# 40		132.1					
		#60		138.2					
		#100		149.4					
		#200		175.9					
		PAN							
		TOTAL							

James M. Montgomery P.O. 2942-0130

Site ID	SS-27-007	Wt soil and dish	324.7
Depth	0-0.2 feet	Dry soil & dish Dish	318 108.5

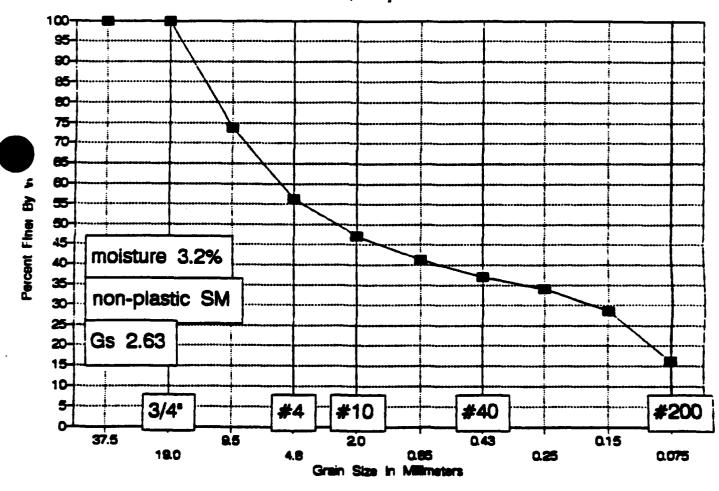
Moisture Content = 3.2

SIEVE ANALYSIS

Dry weight of total sample= 209.5

Sieve Size	Weight Retained	Finer	\$ Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	54.8	73.84%	73.8	9.5
# 4	91.8	56.18%	56.2	4.8
# 10	110.7	47.16%	47.2	2.0
# 20	122.8	41.38%	41.4	0.85
# 40	132.1	36.95%	36.9	0.43
# 60	138.2	34.03%	34.0	0.25
# 100	149.4	28.69%	28.7	0.15
# 200	175.8	16.09%	16.1	0.075

Site SS-27-007, Sample at 0 to 0.2 feet



DISM WT OF DIS WT OF DIS WT OF DIS WT OF DIS	ATION SH + WE SH + DR ISTURE SH Y SOIL	T SOIL T SOIL T SOIL	OSAMP T	5. Hhiz	732:	0 E F	2 6 6 F
DISM DISM WT OF DIS WT OF DIS WT OF DIS WT OF DIS WT OF DIS T OF DIS T OF DIS T OF DIS T OF DIS	ATION SH - WE'SH + DRISTURE SH + SOIL	T SOIL V SOIL		5. Hhra	222 2-2	d	6
DETERMINA DISM WT OF DIS WT OF DIS WT OF DIS WT OF DRY FIELD MOI	ATION SH + WE SH + DR ISTURE SH Y SOIL	T SOIL V SOIL		5. Hhra	222 2-2	d	6
DISH WY OF DIS WY OF DIS WY OF MOI WY OF DRY FIELD MOI	SH + WE SH + DR ISTURE SH Y SOIL	CONTENT	·	s. Hhra	- -	be:	6
WT OF DIS WT OF MOI WT OF DIS WT OF ORT FIELD MOI	SH + DR ISTURE SH Y SOIL ISTURE	CONTENT	·	the s	- -	be:	÷
WT OF DIS WT OF DIS WT OF DRY FIELD MOS	SH + DR ISTURE SH Y SOIL ISTURE	CONTENT	·	the s	- -	be:	÷
WT OF MOI WT OF DRY FIELD MOI	SH Y SOIL I STURE	CONTEN		the s	- -	be:	÷
WT OF DIS WT OF ORI FIELD MOS	SH T SOIL ISTURE (no		the s	- -	be:	÷
TIELD MOS	STURE (no		the s	- -	be:	÷
3 CO	STURE	no		the s	- -	be:	÷
3 		no		the s	- -	be:	÷
		- ca		the s	- -	be:	÷
		- ca		the s	- -	be:	÷
3		- ca		5 100	- - 7+ 1	be:	Ē
		ca		no			Ē
		ca		no			Ē
		ca		no			Ē
		ca		no			Ē
		ca		no			Ē
		ca		no			Ē
		ca		no			Ē
		ca		no			Ē
L12Y							
			We	aul			
\/_					450		
77			2000	U'C	OU	7	_
	_		Ι.	(25	2)	_	
\triangle						.	
1.4			-		_	_	
-	-						
	<u> </u>						
20	70 7 1 0	U 1 D		50	60		70
TY CHA	RT					\mathbb{T}	
		I				CH	
+	-	+ +		1-1	-+	b	4
		+-+		╁┈┤	سريا	4	
\Box		Cr	\dashv			4	
		TT	7				
		17			9.00	- 	 -
╂╌╂╌╢		4		+	- 1		- -
CL-ML	W M		مر ا ـــ	4	┝╌┼	4	+
-							
	TY CHA	ZO 30 TY CHART	TY CHART CL	LIQUID LINIT	LIQUID LIMIT 20 30 40 50 TY CHART CL. ML & OL	LIQUID LIMIT 30 30 50 60 TY CHART CL V	LIQUID LIMIT 20 20 50 60 TY CHART CH CH MH &

NP

MECHANICAL ANALYSIS

DATE	BY	af um montbor	nery
BORING <u>CG-26</u>	SAMPLE	024 ретн	0-0.2'
NUMBER OF RINGS	bag	DISH	317
WT. OF RINGS & WET SOIL	0/	WT. OF DISH & WET SOL	244.6
WT. OF RINGS		WT. OF DISH & DRY SOL	1.241.0
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	1 1095
DRY DENSITY		WT. OF DRY SOL	1

WASH SIEVE	DRY SIEVE	WEIGHT OF OVEN DRY SOIL	(grams)
**************************************		***************************************	

FIELD MOISTURE CONTENT

DISH	DISH	SEVE	WEIGHT	WEIGHT ACCUMULATIVE WEIGHT	ACCUMULATI	VE PERCENT
NUMBER	WEGHT	NUMBER	RETANED	RETAINED	RETAINED	FINER
		3°				
	•	1-1/2"		D		
•		· 3/4°		49.0		
		3/8"		55,4 65.2		
		#4		45.2		
		PAN		•		
		TOTAL				

DISH NUMBER				ACCUM	ACCUMULATIVE PERCENT		
	DISH WEIGHT	SEVE NAMER	WEGHT RETWIED	WEIGHT RETAINED	PAR	TAL	TOTAL
				TE HAZD	RETAINED	FNER	FNER
		#10		85.0		·	
		#20		94.5			
		#40		98.1			
		#60		7.101			
		#100		107.8			
		#200		(15,8		_	
·							
		PAN					
		TOTAL.				•	

James M. Montgomery P.O. 2942-0130

Site ID	SS-26-034	Wt soil and dish	244.8
Depth	0-0.2 feet	Dry soil & dish Dish	241 109.5

Moisture Content = 2.9

SIEVE ANALYSIS

Dry weight of total sample= 131.5

Sieve Size	Weight Retained	Piner	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	49	62.74%	62.7	19.0
3/8 inch	55.4	57.874	57.9	9.5
# 4	65.2	50.42%	50.4	4.8
# 10	85	35.36%	35.4	2.0
# 20	94.5	28.14%	28.1	0.85
# 40	98.1	25.40%	25.4	0.43
# 60	101.7	22.66%	22.7	0.25
# 100	107.8	18.02%	18.0	0.15
# 200	115.8	11.94%	11.9	0.075

JOB NO.	-6081	OWNER	JM MOITSOIN E	<u>Ni</u>
				DATE 9/2592

SOIL TYPE ____

	150 AL 000	CB-42-000	(1-12-000	65 20 020
DETERMINATION NO.	EP-01-079	6B-42-002 2-4	45-42-008 0-0.2'	0-5'
FLASK NO.		2	3	4
WT. FLASK + WATER + SOIL , W:	740.66	731.12	689.72	704:27
TEMPERATURE IN °C, T.	19.	19.	19.5°	19.5°
WT. FLASK+WATER, W :	624.69	683.35	641.12	682.48
DISH NO.	64	52	51	101
WT. DISH+DRY:SOIL	252.64	303.75	291.65	183.36
WT, DISH	162.77	227.50	217.33	147:74
WT. SOIL, W.	89.87	76.25	74:32	35.62
SPECIFIC GRAVITY OF WATER AT	1.0002 r, G	1.0002	1.0001	1.0001
SPECIFIC GRAVITY OF SOIL, G:	2.652	2.678	2.890	2.576

REMARKS

 $G_s = \frac{G_T W_s}{W_S + W_2 - W_1}$

JOB NO.	-6081	OWNER JM MONTSOMERY
		TESTED BY UF DATE 9/24/97
SOIL TYP	E	

DETERMINATION NO.	9.5-10°	- EP-01-090 5-55'	EP-01-006 5-5.5'	5-5.5'
FLASK NO.	5	6	7	8
WT. FLASK + WATER+ SOIL, WI	732.17	726.97	738.12	731.48
TEMPERATURE IN °C, T.	19.	19°	19°	19°
WT, FLASK+WATER, W:	680.99	684.72	003.25	687.77
DISH NO.	G3	2B	54	55
WT. DISH+DRY SOIL	306.77	229.09	316.01	297.16
WT, DISH	225.61	161.78	228.91	227.46
WT. SOIL, W.	81.16	67:31	87.90	69.70
SPECIFIC GRAVITY OF WATER AT T	L0002	1.0002	1.0002	1.0002
SPECIFIC GRAVITY OF SOIL, G.	2.708	2.667	2.662	2.682

REMARKS

G₅ = G₇ W₈
W₅+ W₂-W₁

Ж NO.	-6081	OWNER JATIMONTSOMERY
		TESTED BY LAF DATE 9/24/92

SOIL TYPE ____

DETERMINATION NO.	EP-01-052 25-3'	60-45-001 0-0.2'	65-29-022 0-5'	.68-29-013 0-5'
FLASK NO.		2	3	4
WT, FLASK + WATER + SOIL, W	728.96	712.13	663.36	713.28
TEMPERATURE IN °C, T.	19°	19°	19°	19°
WT. FLASK+WATER, W 2	684.69	683.35	641.18	682.59
DISH NO.	100	102	62	ZA
WT. DISH+DRY SOIL	214.67	192.38	251.85	149.37
WT. DISH	144.43	144.25	215.75	99.78
WT. SOIL, Ws	70.24	48.13	36.10	49.59
SPECIFIC GRAVITY OF WATER AT 1	1.0002	1.0002	1.0002	1.000
SPECIFIC GRAVITY OF SOIL, G.	2.705	2.488	2.594	2.624

REMARKS

 $G_s = \frac{G_T W_s}{W_S + W_2 - W_1}$

JOB NO.	-6031	OWNER	_Um monte	nre	2y
			TESTED BY	LAF	DATE 9/23/92

DETERMINATION NO.	6.5-7'	EP-01-059 0-1'	95-3+-00 0 0-0.2'	65-26-034 0-0-2'
FLASK NO.	5	6	7	8
WT. FLASK + WATER+ SOIL, W:	751.99	746.03	750.33	740.66
TEMPERATURE IN °C, T.	21°	21°	21°	21°
WT, FLASK+WATER, W:	680.20	684.58	683.00	687.52
DISH NO.	51	G	52	101
WT. DISH+DRY SOIL	330.17	322.85	334.91	233.15
WT, DISH	217.27	224.24	227.39	147.96
WT. SOIL, W.	112.90	98.61	107:52	85.19
SPECIFIC GRAVITY OF WATER AT T	0.9998	0.9998	0.9998	0.9998
SPECIFIC GRAVITY OF SOIL, G.	2.706	2.657	2.675	2.674

REMARKS

G₈ = G₇ W₈ W₈+ W₂-W₁

SOIL TYPE _____

B NO.	-6081	OWNER	Im montbomery
			TESTED BY 1 DATE 9/21/92

SOIL TYPE _____

DETERMINATION NO.	EP-01-049 0-1'	EP-01-044 5-55	68-29-029 0-5'	EP-01-104 3-4'
FLASK NO.	5	6	7	8
WT. FLASK + WATER+ SOIL, W	735.77	715.12	704.39	727.41
TEMPERATURE IN °C, T.	21.5°	21.5°	21.5	21.5°
WT, FLASK+WATER, W:	680.76	664.56	682.95	68751
DISH NO.	100	6	103	55
WT. DISH+DRY SOIL	232.34	273.50	182.65	290.44
WT. DISH	144.05	224.22	147.81	227.49
WT. SOIL, W.	88.29	49.34	34.84	62.96
SPECIFIC GRAVITY OF WATER AT	0.9997 r. G	0.9997	0.9997	0.9997
SPECIFIC GRAVITY OF SOIL, G.	2.652	2.627	2.599	2.729

REMARKS

$$G_s = \frac{G_T W_s}{W_s + W_2 - W_1}$$

JOB NO.	-6061	OWNER	Jimontsomer	/
			TESTED BY ME	DATE 9/21/92

SOIL TYPE

DETERMINATION NO.	EP-01-064 0.5-1	65-27-007 0-0.2'	45-01-004 0-0.2'	EP-01-061 4:5-5'
FLASK NO.		2	3	4
WT. FLASK + WATER + SOIL , W	741.53	732.28	671.05	734.91
TEMPERATURE IN °C, T.	190	19.5°	19°	19°
WT. FLASK+WATER, W 2	684-69	683.31	641.18	682.59
DISH NO.	63	102	2B	54
WT. DISH+DRY SOIL	317:12	223.08	210.06	312.96
WT. DISH	225.46	144.08	161.68	229.92
WT. SOIL, W.	91.66	79.00	40.30	84.04
SPECIFIC GRAVITY OF WATER AT 1	1.0002	1.0001	1.0002	1.0002
SPECIFIC GRAVITY OF SOIL, G	2.633	2.63	2.614	2.650

REMARKS

 $G_s = \frac{G_T W_S}{W_S + W_2 - W_1}$

JOB NO.	-6021	OWNER _ UM MONTEONERY
		TESTED BY WIF DATE 9/18/72

SOIL	TYPE	

DETERMINATION NO.	GB-42-006 2-4'	EP-01-050 4.5-5'	53-26-009 0-3'	%-26-024 0-02'.
FLASK NO.	5	6	_7	8
WT. FLASK + WATER+ SOIL , W	H4.24	710.22	714.70	728.38
TEMPERATURE IN °C, T.	20°	20°	20°	20°
WT, FLASK+WATER, W 2	680.90	624.65	683.15	687.70
DISH NO.	102	52	101	54
WT. DISH+DRY SOIL	196.56	262.23	199.07	294.52
WT. DISH	143.81	227.18	147.74	228.63
WT. SOIL, W.	52.75	41.05	51.33	65.85
SPECIFIC GRAVITY OF WATER AT T	1.0000 . Gr	1.0000	1.0000	1.0000
SPECIFIC GRAVITY OF SOIL, G.	2.718	2.652	2.606	2.614

REMARKS

 $G_s = \frac{G_T W_s}{W_S + W_2 - W_1}$

JOB NO.	-6081	OWNER UM MOINTECHNERY
		TESTED BY LAF DATE 9/18/92

SOIL TYPE _____

DETERMINATION NO.	96-29-008 0-0.2	EP-01-105 7'-&	3.5-4'	- 0-1' 8B-BK-001
FLASK NO.		2	3	4
WT. FLASK + WATER + SOIL , W	726.84	727:44	682.08	754.60
TEMPERATURE IN °C, T.	20°	20°	20°	20
WT. FLASK+WATER, W 2	684.52	683.24	641.06	682.42
DISH NO.	G2	3	ZA	2B
WT. DISH+DRY SOIL	284.47	296.34	165.13	278.05
WT. DISH	215.74	225.02	99.82	161.74
WT. SOIL, Ws	66.73	71.32	65.31	116.31
SPECIFIC GRAVITY OF WATER AT	1.0000 T, GT	1.0000	1.0000	1.0000
SPECIFIC GRAVITY OF SOIL, G.	2.602	2.630	2.689	2.640

REMARKS

G₅ = GT W₈
W₈+ W₂- W₁

#80##70#Y CL#35+#+C#	TION _		. 	. - -						2001	N N G 🕏	(v		HPLF	()	15	٥
FIELD DENSITY	· · -	<i>i</i> /	·							2041	40 <u>5</u> 7	<i>2</i>	- د ر			. ~ .	
NC I TANIMESTSO					:		٦	<u> </u>	ETER	INAT	LON				:		Т
NUMBER OF RINGS				\dashv			┥	\vdash	15#				-+				╁
WT OF RINGS + WET	5011			\dashv			\dashv	-	<u> </u>	DISH	- 461	501	-				╁
WT OF RINGS	-	-			•••••						+ 081						╁╌
WT OF WET SOIL		_		- [T OF					_		-	
FIELD DENSITY				+-			-										╀╌
DRY DENSITY							4		TOF								
THIS IS AN	1/8-1808	THRE		<u> </u>		<u> </u>	٢	-	TOF				+				╀
PLASTIC LIMIT 67								ئــا	16.60	1012	TURE C	. Ow 1 E	*'				<u></u>
DETERMINATION		1		\mathcal{I}_{-}	2		T		3			#		-	5.		Γ
DISH	$\overline{\Lambda}$	15) /		ALI	21	7		1/	01	<u>(</u>	1	<u>}[</u>	4/1		20	
WT OF DISH + WET S	OIL	/	/		/								7.4				
WT OF DISH + ORY	01 L	7	<u> </u>	7	7	/	T							1			Γ
WT OF MOISTURE		X			$\overline{\nabla}$	_	}			•	_			_		_	
WY OF DISH		1.4	7	1	1.2	<u>-</u>		*****	*******						*******		
WT OF ORY SOIL			7			7				•			•	_		-	1
MOISTURE CONTENT	V			7/		7				T							Γ
LIQUID LIMIT																	
DETERMINATION	1	1		<i>,</i> \	2		\sqrt{K}		3	7		4			5		Γ
ÚISM		AL	120	, 1	A-	7/		41	8	3/		10	U	2 Y	10-	F 1	5
NUMBER OF BLOWS		1	1	7	7	'	十	7		9		سم		1/1			
WT OF DISH + WET S	011	7	/		1	/ 	十	\dashv			-		Di				
WT OF DISH + DRY S	01 L	X	\ \	_	∇				\	_			7	<u> </u>		سي	H
WT OF MOISTURE		7	\forall	- {	\rightarrow	_			\wedge	•	_		.	_	-	_	
WT OF DISH		/14	17		/12	7	-	7	4								
WT OF ORY SOIL		/	 /	$\sqrt{1/2}$	/	7	1,	/		\			•	_		_	
THETHOS SRUTZICM	1			V			\forall		_	-4			\dashv				H
							71						LIH	1.7			_
FLOW CURVE							10		70 Y C	MAR	20		10	90	T	-60	
		+	$\vdash \dashv$	-	+ +		 -		. ``		4	+-	\vdash	-+	+	+	
		+	\Box	<u> </u>	1							<u> </u>			\perp	4	
				•		j	ſ										_
	1			:			\neg		寸					\Box			_
	-	+	-				\dashv	┪	\dashv	+	\dashv			\dashv	 ,		_
ļ		+						_	_			CL	1		`	\leftarrow	
,				<u>:</u>]:	İ								_		\perp	
				•		i							1			T	
;	!	11			++	i	\dashv	\dashv	\dashv	\dashv	+	17	1	1	\dashv		H (
 		╂╌╢	\vdash		++					-	+	4	-	-	-+	- - - - - - - - - -	
<u> </u>		igspace	\Box					Z/C	L-M	11111		1	014	\sqcup	_		
	ىستىن	ابيل		1111]:]					.1	"	Ī					
5 7 10			5 30			٥											
SUMMARY	ER OF (BLOWS	5														
	STURE	T		1417	1				LAST	12111		-716	ICATI				_
007 0EHS 177 CO	NTENT	1 6 104	,, v r		1 . [4 7	116	L1 W1 1		IND		11.00						

James M. Montgomery P.O. 2942-0130

Site ID	55-46-018	Wt soil and dish	397.9
Depth	0-0.2 feet	Dry soil & dish Dish	393.5 106.5

Moisture Content = 1.5

SIEVE ANALYSIS

Dry weight of total sample= 287

Sieve Size	Weight Retained	Finer	\$ Finer	Sieve opening mm
1.5 inch	0	100.004	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	81.31	71.67%	71.7	9.5
# 4	149.23	48.00%	48.0	4.8
# 10	176.61	38.46	38.5	2.0
# 20	184.39	35.75%	35.8	0.85
# 40	203.17	29.21%	29.2	0.43
# 60	217.08	24.36%	24.4	0.25
# 100	227.21	20.83%	20.8	0.15
# 200	247 0	13 668	13 7	0.075

SA

MECHANICAL ANALYSIS

DATE <u>GIZCIP?</u> JOB NUMBER	BY	MF_UM Montac	omery
BORINGGG-46	SAMPLE	OIO DEPTH	0-0.2'
NUMBER OF RINGS	baar _	DISH	309
WT. OF RINGS & WET SOL	U	WT. OF DISH & WET SOIL	3979
WT. OF RINGS		WT. OF DISH & DRY SOIL	393.5
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	06.5
DRY DENSITY		WT. OF DRY SOL	
•		FIELD MOISTURE CONTENT	1.5
WASH SIEVE DRY SIEV	E	WEIGHT OF OVEN DRY SOIL	(grams

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE	ACCUMULATI	VE PERCENT
NUMBER	WEGHT	MARKER	RETAINED	WEIGHT	REDANED	ANER
		3°				
		1-1/2				
•		· 3/4°		0		
		3/8"		81-31		
		#4		81-31		
		PAN				
		TOTAL				

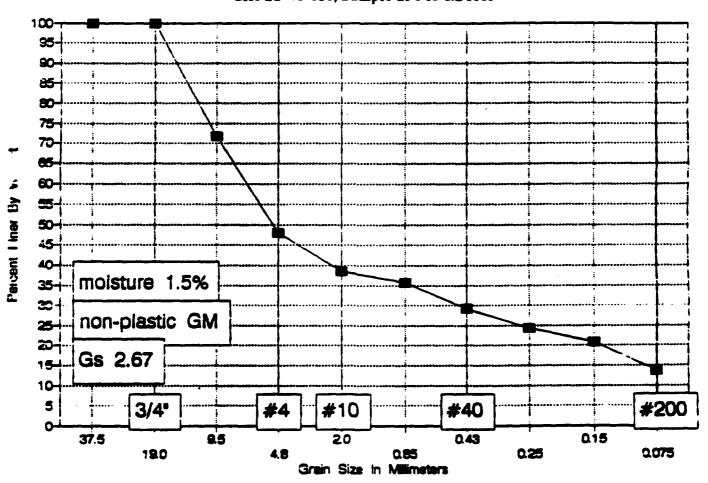
				ACCUM	A	COUNTLATIVE PER	THES.
OISH NUMBER	DISH WEIGHT	SEVE MANUER	WEIGHT	WEIGHT		ITIAL .	TOTAL
				TE INTED	RETANED	PNER	PAGE .
		#10 °		176.61		•	
		#20		184.29			
		#40		203.17			
		#60		217.08			
		#100		227.21			
		#200		247.80			
		PAN					
		TOTAL					

Demes & Mo

	DESECTIONS	TEST DATA						ini	B 46			00	801					
	RBERG LIMITS							50.	ENT/0	WNER		Im	m	OVII	12	2	V	<u> </u>
	LD SC#15!F1S47!							10:	CATION			, –						
1 4 90) P	TICATION _							MOITAC Borne	پوښي ي	-4	Ø SAI	IPLE .	QQ	2 0	EPTH	9	<u>- C</u>
F	IELD DENSITY	f 57	-//															
	DETERMINATION		1	Т	:		Г	DETER	MINATI	ON		T		1	T		2	
	NUMBER OF RING	G 5		+			一	D 15H				十			十		-	
	WT OF RINGS +	WET SOIL		+-			F	WT OF	DISH	- WET	501				╁			
	WT OF RINGS						-	WT OF	D15H	+ DRY	501							-
	WT OF WET SOL	1				-			MOIST				_			_		-
	FIELD DENSITY			┿				WT OF										
	DRY DENSITY			+-			-	*********	DRY S	<u> </u>			_		İ	_		•
		AN 1/8-INCH	THREAD -	느			⊢		MOIST		WTE	. +			+-			
	LASTIC LIMIT						L		-0131	-		•••						
Pi	LASTIC LIMIT	ב. יוש וו	1165125											_				
	DETERMINATION		1	不	2	Λ		3		, ·	.			5 ·	T		6	
	DISH		YAL102	7	A	6/			COU	u	7)+	H	Res	4			
	WT OF DISH + 1	WET SOIL	T		I	7 1				-10	0	11	2)				
	WT OF DISH + (DRY SOIL	Δ		\mathcal{I}	_	_		_ T									
	WT OF MOISTURE		$\overline{\mathcal{I}}$		$\overline{\lambda}$													
	WT OF DISH		71.4		1.0	Z												
	WT OF DRY SOL																	
	MOISTURE CONT	ENT		\mathbf{V}		$\overline{}$												
LI	OUID LIMIT					_												
				71		1			7			- 7			\neg			
	DETERMINATION		1 125	47	2		$\frac{1}{\lambda}$	3	4		1	-		5	 -			
	DISH		AL 1373	4	AL.	101/	允	للسك	φ_{\perp}					ot			_	
	NUMBER OF BLOW		\ /		-/-	-/-	\rightarrow	/				-K	icie	au	70	-		
	WT OF DISH + 1		\-			/		//					Щ,	ζÓΓ	44			
	WT OF DISH + C		_			X	_	-X-	-			. [16	21	i			
	WT OF MOISTURE		-/-/-				•••••	A										
	WT OF DISH		1.4		نبلكر	<u>4</u> \	+	1.4	1 /			.						•
	WT OF DRY SOIL			$\forall \angle$	<u> </u>		/ -		$\overline{+}$						-			
	MOISTURE CONTE	THT /		<u>V</u>			<u>/</u>					L						
										LIQU	10	LIN	I T					
		······································	, , , , , , , , , , , , , , , , , , , 			0	10	20		30	4	0	<u> </u>		0	- 70		
	FLOW CUR	VE !			1	PLAST	rich	TY C	HART				\perp					
i				-	1										C	н		
					1					1			一	\top				
=	 	 -	 	-	-	\vdash	-			+		\vdash	-+-	-	\vdash	-4	\dashv	
] [-		+++	1	-		-	\vdash		4-1		\vdash	_	1,4	4			
CONTE											CL			٠,٠,٠				
		1											V					
2			 	Ť		 	 	1	-i-	+		-	4	十一				
MO I STURE		<u>_</u>		<u> </u>	-	 	┼—	+ +		+			+	+	₩		_	
0		į												<u> </u>	#H #		<u> </u>	
							1115	i La Mi	11111				_]		_
										-ML	•	OL†		T				
	5 7 10	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	70 25 30	للتا	•		Щ.	11							لـــا			
			LOWS															
SL	JMMARY																	
	DAT DENSITY	CONTENT	FIONIO FI	u 17	PLAS	TIC LIN	17	PLAST	ER	136		CATIO) N					
											V	7						

GRADATION CURVE

Site SS-46-018, Sample at 0 to 0.2 feet



James M. Montgomery P.O. 2942-0130

Site ID	SS-46-009	Wt soil and dish Dry soil & dish	346.3 332.8
Depth	0-0.2 feet	Dish	110.7

Moisture Content = 6.1

SIEVE ANALYSIS

Dry weight of total sample= 222.1

Sieve Size	Weight Retained	Finer	\$ Finer	opening
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	12.07	94.57%	94.6	9.5
‡ 4	33.69	84.83%	84.8	4.8
# 10	92.36	58.42%	58.4	2.0
# 20	120.83	45.60%	45.6	0.85
# 40	136.77	38.42%	38.4	0.43
# 60	150.35	32.31%	32.3	0.25
# 100	164.84	25.78%	25.8	0.15
# 200	185 04	16.69%	16.7	0.075

SH

MECHANICAL ANALYSIS

DATE	BY	ent um montom	nezy
BORING	SAMPLE		0-02'
NUMBER OF RINGS WT. OF RINGS & WET SOL	max.	WT, OF DISH & WET SOIL	346.3
WT. OF RINGS WT. OF WET SOIL	····/.	WT. OF DISH & DRY SOL. WT. OF MQISTURE	.332.8
FIELD DENSITY . DRY DENSITY	·/ ·	WT. OF DRY SOIL	110.7
WASH SIEVE DRY SIEV	Æ	WEIGHT OF OVEN DRY SOIL	(grams)

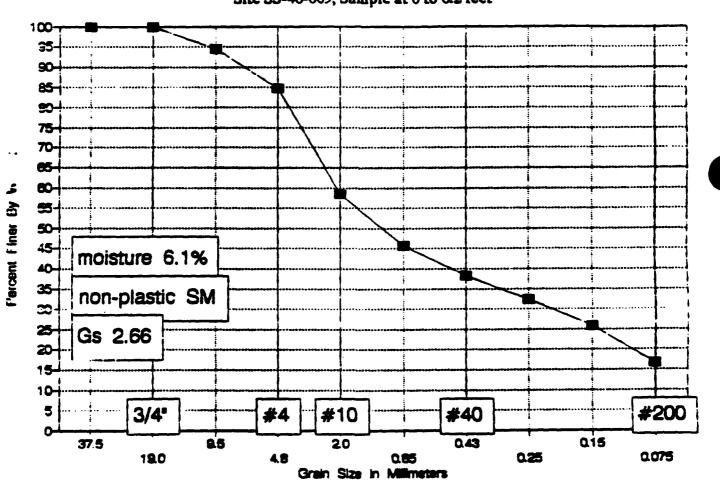
DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE	ACCUMULATIVE PERCENT						
NUMBER	WEGHT		RETAINED	WEGHT -	RETAINED	FINER					
		3°									
		1-1/2				-					
		· 3/4°		0							
		3/8*		12.07							
		#4		12.07 33.69							
		PAN .		·							
		TOTAL				=					

				ACCUM		COMMUNITYE PER	CE/T
DISH NUMBER	OISH WEIGHT	SEVE MANGER	WEIGHT	MEGHT	PAR	MAL	TOTAL
				RETURED	RETAINED	ANER	ner.
		#10		92.36		•	
		#20		120.23			
		#40		136.77			
		#60		150.35			
		#100		92.36 120.23 136.77 150.35 164.84 185.04			
		#200		185.04			
		PAN					
		TOTAL					

ERBERG CIMIIS	TEST DAT	7 A						J	08 N(-			- / <u>/</u>	17	7) 100	A	z-()	m	7
ELC CLASSIFICATI	ON											• 1	<u> </u>	<u> </u>	101			<u> </u>	
1509470F* [1235]	FICATION							L	OCATI		24	1	2 sa	<u> </u>	. ť	7);	20	C 0 7 4	7
FIELD DENSITY	r ar	/ /	<u>.</u> .						80	KING	7.7	Ţ-	= >*	776	ייב י	. مر	0	EFIN	Ξ
NC I TANI MEET 30				T	:		¬ 1	0575	RMIN	7 10					1		1		2
NUMBER OF RIN				+-	<u>`</u>		-	DISP					-+		÷		┿		<u> </u>
WT OF RINGS +				+-			-		F 015			Sai	. +				╁		_
WT OF RINGS			**********		·····	*******			F 01:								+-		
}			_				11	-	F 40		-		-	-		-	1		_
WT OF WET SOI				+			- 1										+-		
FIELC DENSITY				╂—			-{	-) F 01:					_			1		_
DRY DENSITY	S AN 1/8-IN	CM TMB6	40				-		F DRY								┿		_
PLASTIC LIMIT								7166	.D MOI	310	18 CO	W 1 E 1	<u></u>				_!		
DETERMINATION		\ 1	•	$\overline{\Lambda}$	2	/	7	3		Τ	4		\top		5		T	(6
DISH		AL	129	77	AL	5/	T		COL	160	1	10	H	H	112	20	10		_
WT OF DISH +	WET SOIL	7	1	Τ,	\ \	/				1	(14						
WT OF DISH +	ORY SOIL		.*	1	<u> </u>	/_				T				7			T		
WT OF MOISTUR	E				X] .] '									
WT OF DISM		1.	4		1.	4					****			-			7		-
WT OF DAY SOL		/	\neg	1,	7	7	'			'							1		_
MOISTURE CONT	ENT	/																	
LIQUID LIMIT																			
OFTERMINATION		7 1		/\	2		不	3		1	- 4				5				<u>-</u>
DISH		VAI	IIA	.1	AL.	201	7	AL	117	1		<u> (</u>	וטכ	1	Y	10	+	(de	Ŧ
NUMBER OF BLO	# \$	4	7	$\uparrow \uparrow$	<u> </u>	/ /	+	412	7	†				7/				É	-1
WT OF DISH +	WET SOIL	-+	/	+-	 	$\overline{}$	\top	$\overline{}$	7	T			THE	i C	ic	<u> </u>	h	in	Ŧ
WT OF DISH +	DRY SOIL	X	K	_	7	/	-	_ /	/	1			-4		72	马			_
WT OF MOISTUR	<u></u>	7	\vdash	ł	$\overline{\chi}$		'	7	7	'			'	_				_	_
WT OF DISH			47		47	Ψ.		1.4	[/_	 		•				******	1		-
WT OF DRY SOL	L	/	$\neg /$	1,		\forall	1 /	/1	_/	١.			.	_		_			_
MOISTURE CONT	ENT	/ 		V		-/	1/			4									
							4.						LIM						_
					, ,	0	10		20	- 3	• •	-	-	<u>``</u> ×	,	•	•	70)
FLOW CUR	VE :	_	$\vdash \downarrow$	-		PLA	571C	ITY	CHA	AT				_	_			+	_
	<u> </u>			;	:									_			U	<u>* </u>	
				;				1	}						_		_	لر_	
					1:				T					\neg					_
 			\vdash	÷	 	 	-+-	╁╴	 				1		-				-
			\vdash	<u> </u>		\vdash	\rightarrow	+-	+-			CL		\dashv		_			
				<u>:</u>	:		\perp	1_					!						
	į		1										1						
	!			;	1		7	7									44 4) OH	,
		+-	 	÷	 	-	+	 _			7		 	\dashv			Н	1	_
			$\vdash \vdash$	÷		├┼		CL.	_	11/2	ML		OL			-	\vdash	-+	
		<u> </u>				. 1			1				. 1						
	ىيىت		نلبيا	шц	<u> </u>				10										
5 7 10		.70	25 30 S	шц	<u> </u>	×			10	لـــا									

GRADATION CURVE

Site SS-46-009, Sample at 0 to 0.2 feet



JOB NO	<u>-6081</u>	OWNER	TMMONITGOMERY	
			TESTED BY	DATE 9/4/92
COU T	VDE		-	

DETERMINATION NO.	53-01-008 100'	SB-01-003	53-01-007 25'	\$6-01-001 20'
FLASK NO.	1	Z	3	4
WT. FLASK + WATER + SOIL , W	717.81	724.52	667.21	708-17
TEMPERATURE IN °C, T.	19.	19°	19"	19°
WT. FLASK+WATER, W 2	684.69	683.35	641.18	<i>6</i> 82. 59
DISH NO.	63	54	52	GI
WT. DISH+DRY SOIL	277.10	293.98	267.87	264.26
WT, DISH	724.73	228.79	226.97	223.71
WT. SOIL, W.	52.37	65.19	40.90	40.55
SPECIFIC GRAVITY OF WATER AT T	, Gr (.0002-	1.0002	1.0002	1.0002
SPECIFIC GRAVITY OF SOIL, G.	2.721	2.715	2.751	2.709

REMARKS

G₅ = G₇ W₅
W₅+ W₂-W₁

JOB NO.	-6061	OWNER _ IM MONTGOMERY_
		TESTED BY JN/LF DATE 9/15/92

* Note Below

DETERMINATION NO.	EP-01-032 5-5.5'	58-42-011 2-45'	EP-01-007 5-5.5'	- EP-01-001 4-5'
FLASK NO.		2	3	4
WT. FLASK + WATER + SOIL , W	716.86	729.68	691.01	732.98
TEMPERATURE IN °C, T.	19°	19°	19°	19°
WT, FLASK+WATER, W 2	684.69	683.35	641.18	68259
DISH NO.	51	55	52	62
WT. DISH+DRY SOIL	268.47	301.96	307:05	297:07
WT. DISH	217.19	227:49	227:13	215.96
WT. SOIL, W.	51.28	74.47	79.92	81.11
SPECIFIC GRAVITY OF WATER AT T	, G. 1.0002	1.0002	1.0002_	1.0002
SPECIFIC GRAVITY OF SOIL, G.	2.684	2.647	2.657	2641

REMARKS

* GB-29-034, 0-5' could not pur test-not enough sampic

G_s = G_T W_S
W_S+ W₂-W₁

JOB NO.	-6021	OWNER	Im mont-comery
			TESTED BY LAF DATE 9/17/92

SOIL TYPE _____

	·			
DETERMINATION NO.	EP-01-053 6.5-7'	EP-01-063 1-2'	65-19-006 0-0.2'	5-55'
FLASK NO.		2	3	4
WT. FLASK + WATER + SOIL , W	H0.21	722.51	694.33	711.59
TEMPERATURE IN °C, T.	190	19°	19°	19°
WT. FLASK+WATER, W:	684.69	683.35	641.18	662.59
DISH NO.	2B	ZA	54	63
WT. DISH+DRY SOIL	202.09	162.19	313.65	271.88
WT, DISH	161.84	99.82	228.81	225.24
WT. SOIL, W.	40.25	62.37	84.84	46.64
SPECIFIC GRAVITY OF WATER AT 1	r, Gr 1.0002	1.0002	1.0002	1.0002
SPECIFIC GRAVITY OF SOIL, G.	2.733	2.688	2.678	2.645

REMARKS

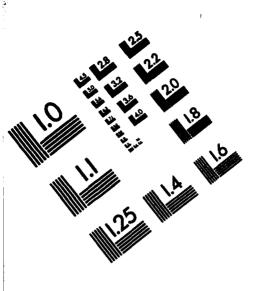
JOB NO.	-6081	OWNER .	Jm	monte	one	12Y
				TESTED BY	LAF	DATE 9/17/92

SOIL TYPE ____

DETERMINATION NO.	EP-01-012 2'	EP-01-037 65-7'	58-26-005 0-3'	EP-01-084 45-5'
FLASK NO.	5	6	7.	9
WT, FLASK+WATER+SOIL, W.	714.65	715.46	705.97	703.53
TEMPERATURE IN °C, T.	190	19°	19°	19°
WT, FLASK+WATER, W 2	660.99	664.72	683.25	607.77
DISH NO.	51	52	G2	GA
WT, DISH+DRY SOIL	270.59	275.68	252.41	187.70
WT, DISH	217.23	226.89	215.72	162.57
WT. SOIL, W.	53.36	48.79	36.69	25.13
SPECIFIC GRAVITY OF WATER AT T	1.0002	1.0002	1.0002	1.0002
SPECIFIC GRAVITY OF SOIL, G=	2.709	2.704	2.627	2.623

REMARKS

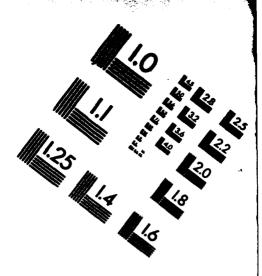
G_s = G_T W_S W_S+ W₂-W₁ AD-A282 574 TOUELE ARMY DEPURT-NURTH AREA SUSPECTED RECEASES SAMUS UOLUME 2 APPRENDICES A - J REVISION(U) MONTGOMERY NATSON HALNUT CREEK CA DEC 93 XA-USAEC UNCLASSIFIED DAAA15-90-D-0011 NL

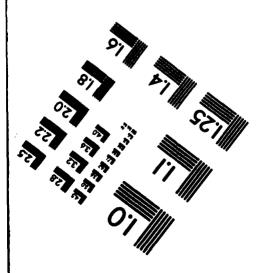




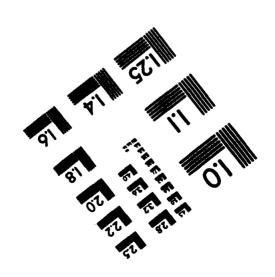
Association for information and Image Management

1100 Wayne Avenue, Suite 1100 Silver Spring, Maryland 20910 301/587-8202





MANUFACTURED TO AIIM STANDARDS
BY APPLIED IMAGE, INC.



JOB NO.	-6081	OWNER	JMMONTGOMERY	
			TESTED BY	DATE 9/30/97
SOIL TYP	E			

EP-01-017 SS-20-016 95-38-002 55-46-018 0-0.2' 0-0.Z' DETERMINATION NO. 0-0.2' 0-1' 3 1 2 4 FLASK NO. 735.40 721.21 711.36 738-28 WT. FLASK + WATER + SOIL, WI 19° 19 19° 19° TEMPERATURE IN °C, T. 641-18 684.69 683.35 682.59 WT. FLASK + WATER, W 2 23 *54* 62 52 DISH NO. 343 74 243.48 317.22 272.73 WT. DISH+DRY SOIL 161.75 215.64 228.73 226.76 WT DISH 80.73 88.49 128.1 45.97 WT. SOIL, Ws GT 1.0002 1.0002 1-0002 1.0002 SPECIFIC GRAVITY OF WATER AT T,

2.690

2.637

2673

2.665

REMARKS

 $G_s = \frac{G_T W_s}{W_s + W_z - W_1}$

SPECIFIC GRAVITY OF SOIL, G.

JOB NO.	-6081	OWNER JMMONTGOMERY
		TESTED BY 1 DATE 4/30/92
SOU TYP		•

DETERMINATION NO.	EP-01 - 100 5-5.5'	SB-01-005 25'	55-01-002 15	58-01-006 45'
FLASK NO.	5	6	7	8
WT. FLASK + WATER+ SOIL . W 1	702.20	717.25	745.22	737.05
TEMPERATURE IN °C, T.	19°	19°	19°	19.
WT. FLASK+WATER, W 2	680.99	684.72	683.25	687.77
DISH NO.	91	63	61	55
WT. DISH+DRY SOIL	250.33	275.32	322.30	305.49
WT, DISH	216.89	223.65	223.17	227.66
WT. SOIL, W.	33.44	51.67	99.13	77.83
SPECIFIC GRAVITY OF WATER AT	T, Gr 1-0000	1.0002	1.0002	1.0002
SPECIFIC GRAVITY OF SOIL, G.	2.735	2.700	2-668	2.727

REMARKS

 $G_s = \frac{G_T W_S}{W_S + W_2 - W_1}$

James M. Montgomery P.O. 2942-0130

Site ID	SS-28-008	Wt soil and dish	235.6
		Dry soil & dish	233.2
Depth	0-0.2 feet	Dish	107.4

Moisture Content = 1.9

SIEVE ANALYSIS

Dry weight of total sample= 125.8

Sieve Size	Weight Retained	Finer	\ Finer	Sieve Opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	22.6	82.03%	82.0	9.5
# 4	51.6	58.98%	59.0	4.8
# 10	70.9	43.64%	43.6	2.0
# 20	80.6	35.93%	35.9	0.85
# 40	85	32.43%	32.4	0.43
# 60	88.4	29.73%	29.7	0.25
# 100	93.8	25.44%	25.4	0.15
# 200	103.4	17 815	17 8	0.075

MECHANICAL ANALYSIS

OB NUMBEROCATION	BY	um montac	mery 1
ORING <u>66-28</u>	SAMPLE	008 рертн _	0-0.2'
NUMBER OF RINGS	coor	DISH	060
WT. OF RINGS & WET SOL	0/	WT. OF DISH & WET SOIL	1.235.6
WT. OF RINGS		WT. OF DISH & DRY SOL	233.2
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	1074
DRY DENSITY	¥ .	WT. OF DRY SOL	
		FELD MOISTURE CONTENT	1.19
VASH SIEVE DRY SIE	VE	WEIGHT OF OVEN DRY SOIL	(Oran

DISH	DISH	SEVE	WEGHT	ACCUMILATIVE	ACCUMULATI	VE PERCENT
NUMBER	MEGHT	NABER	MARIER RETANED RETANE		RETAINED	ANER
		3"				
	·	1-1/2				
•		· 3/4°		0		
		3/8"		22.h		
	·	#4		22.h 51.b		
		PAN		·		
		TOTAL				

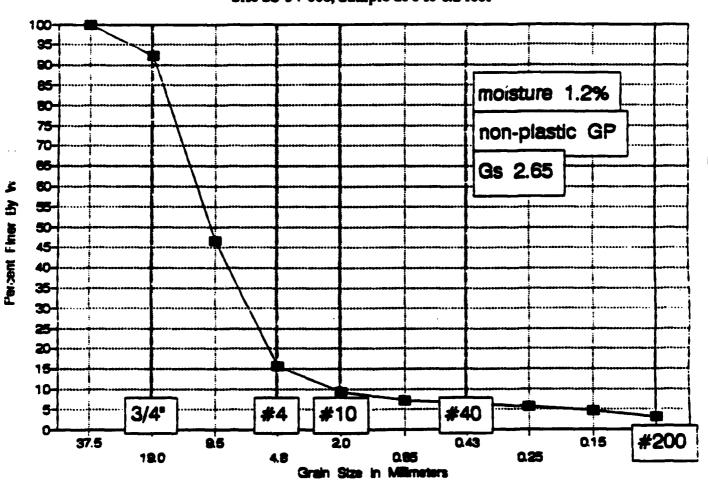
		DISH SEVE WEIGHT MANGER		ACCUM	A	COMMUNITIVE PER	THE
DISH NUMBER			REDUKED	WEIGHT	MA	TRAL	TOPAL
				1616	RETUNED	ner .	rner
	·	#10		709		·	
		#20		80.6			
		#40		85.0			
		#60		88.4			
		#100		93.8			
		#200		103.4			
			1				
A Paris		PAN					
		TOTAL				•	

.C. CL4101F)C4710N						C L	LENT,	OWNER		1/_	لبل	لسلل			
PATORY CLASSIFICATION							909	۳۰ ک عادات	رميث	64	MDI F	C	25	NEPT	. 0
IELD DENSITY ST	/ /	•					60*	ر ۱۳۰	722	.		٠٠٠	يري		" -
NC ITAMIMATI 30	1			2	ר ר	06766	MINA	TION				1	Т		2
NUMBER OF RINGS	 				┪┝	DISM				\dashv			\dashv		
WT OF RINGS + WET SOIL					- -		DIS	1 - ME	T 501				-		
WT OF RINGS			·	*******	-l l-			- DR							
WT OF WET SOIL		-			-	wT OF	MO1	TURE			_		•	_	
FIELD DENSITY	 	_			┪	WT OF	DIS								
DRY DENSITY					-l		DRY				_	·	•	_	
THIS IS AN 1/8-IN	CH THREAD				J		——	TURE	CONTE	NT		,	\dashv		
ASTIC LIMIT BY LOF.					,								4		
ASTIC LIMIT BY LOTE.	-4.7/12											_			
DETERMENATION	1	Λ	- 2			3			4			5.			6
DISH	ALG	7	AL	113			\mathcal{C}	70	n	off	+	DRE	ak		
WT OF DISH + WET SOIL			7	/						\Box			\Box		
WT OF DISH + DRY SOIL				<u> </u>						. T			. T		
WT OF MOISTURE				7											
WT OF DISH	1.4	1 /	1.	4	_			_							
WT OF ORT SOIL		$\Delta \Gamma$		7											
MOISTURE CONTENT	<u>/</u>	<u> V</u>		\									\perp		
QUID LIMIT															
DETERMINATION	1	71	7	. ,	Ĭ	3			4			5			6
DISH	XILIO	7	19	3:	7	7A	7		CC	UL	1	na	- 6	et	
NUMBER OF BLOWS	\		\ <u>\</u>	1		<u></u>	7						AH.		
WT OF DISH + WET SOIL			,	/		- /	/			T.	ia	W	cor	m	F
WT OF DISH + DRY SOIL			<u> </u>			7						(25	7)		
WT OF MOISTURE			Z	\sum_{i}		<i>J</i> ·									
WT OF DISH	1.4		1.4	4\		(4									
WT OF DRY SOIL					LZ										
MOISTURE CONTENT		V			Z		_\								
•					•			LIO	U 1 D	LIM	l T				
		, , ,	, , , ,	0	10	<u> </u>		30		0 1	90 T	_	60	7	0
FLOW CURVE	++	1.	 	PLAS	TICE	FY (SHAP	п	↓	\vdash	_		-		
;		1:											•	Н	
							T				T				
	 		+ :		+	1 1		_	+-		十	+	+-		
		+	┼÷	++	+-	┼╌┤	+	+-	+-	┡	+	ريدو	کرہ	1-	1
	+	1:	 	\vdash	4	\sqcup		\bot	Cr		_	Z	4_	↓_	!
			<u> </u> :						1		X				L
			1						T	7	1				
		+	++		+	\vdash	\dashv	+	17	4	十	+	NON.	 	
		++	┿	├	+-	╀╌┤	-+		4		+		+	-	-
		1 .		1 1	7//5	L- M	1/1/1			<u>'.</u> 1			_1_	1 _	
T		+	+	-								_	_		
2		101	:				,1		Ī						

NP

GRADATION CURVE

Site SS-34-006, Sample at 0 to 0.2 feet



James M. Montgomery P.O. 2942-0130

Site ID	SS-34-006	Wt soil and dish	334.8
Donah	0-0 2 4004	Dry soil & dish	332.2
Depth	0-0.2 feet	- Dish	110

Moisture Content = 1.2

SIEVE ANALYSIS

Dry weight of total sample= 222.2

Sieve Size	Weight Retained	Finer	\$ Finer	Sieve opening mm
1.5 inch	0	100.00	100.0	37.5
3/4 inch	17.11	92.30%	92.3	19.0
3/8 inch	118.85	46.51%	46.5	9.5
# 4	187.59	15.58%	15.6	4.8
# 10	201.71	9.22%	9.2	2.0
# 20	206.17	7.21%	7.2	0.85
# 40	208.05	6.37%	6.4	0.43
# 60	209.73	5.61%	5.6	0.25
# 100	211.88	4.64%	4.6	0.15
# 200	215.41	3.06%	3.1	0.075

MECHANICAL ANALYSIS

$\frac{6 20 27}{1000}$	BY OWNER/CL	But On Don a	micky
RING	SAMPLE _	006 DEPTH _	0-0.2'
NUMBER OF RINGS	120	DISH	212
WT. OF RINGS & WET SOIL WT. OF RINGS	Ú	WT. OF DISH & WET SOIL WT. OF DISH & DRY SOIL	372.2
WT. OF WET SOL FELD DENSITY	•	WT. OF DISH	[[0.0]]
DRY DENSITY	<u> </u>	WT. OF DRY SOL. FIELD MOISTURE CONTENT	12

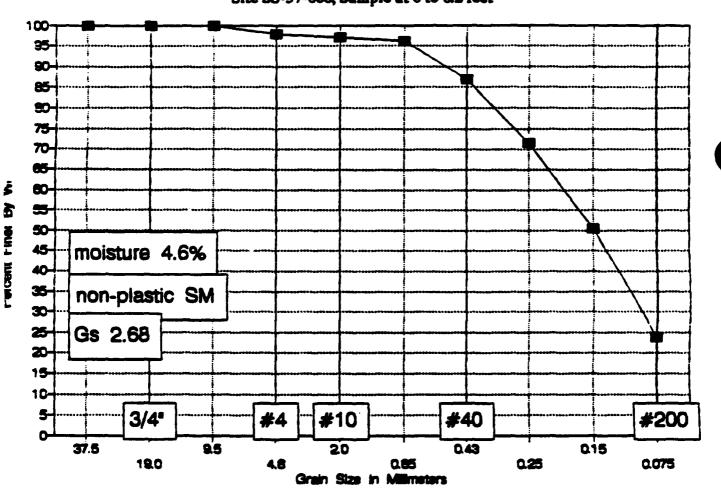
DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULATI	E PERCENT
NUMBER	MEGHT	VEIGHT NAMER	REDAMED	RETAINED	RETAINED	ANER
		3°				
	·	1-1/2"		0		
•		· 3/4°		17:11		
		3/8"		110.05		
		#4		17:11 110:05 187:59		
		PAN				
		TOTAL				

				ACCUM	A	COMMUNITYE PER	CENT
DISH	DISH WEIGHT	SEVE NAMER	MARGER WEIGHT WEIGHT PART	MAL.	TOTAL		
					REDANED	FINER	PINER
		#10		201.71		·	
		#20		206.17			
		#40		208.05			
		#60		209.73			
		#100		211.88			
		#200		215.41			
		PAN					
		TOTAL					

001100000000000000000000000000000000000	37						_							_			_	
DETERMINATION		_	1			2		<u> </u>	ERMIN	ATIO	*		_	."	1		_	
NUMBER OF RINGS				\dashv				01					_				+	
WT OF RINGS + W	ET SOIL	*********							OF DI			_					4	
WT OF RINGS				.			1		OF DI			501		_		_		-
WT OF WET SOIL		_						WT	OF MO	ISTU	RE							
FIELD DEMSITY				4-			4	WT	OF DI	SH		~		_			ļ	_
DRY DENSITY								WT	OF DR	7 50	11						1	
ASTIC LIMIT	an 1/8-inch by UE-S	_							LD MO	ISTU	RE C	ONTE	NT					
DETERMINATION					- 1	2	$oxed{T}$	3)			4			5,		Τ.	
DISH		0			AL	90	$\prod_{i=1}^{n}$		Air	AFI	الك	F	110	F	n2	ea	A	
WT OF DISH + WE	T SOIL	12.	56			99)				Ĭ		1					T	
WT OF DISH + DR	7 501L		62			10	1			1								
WT OF MOISTURE														_		_		
WT OF DISH		_1.4	E	7	_].	4	1			T						*********	7	
WT OF DRY SOIL													'	_				
MOISTURE CONTEN	ıτ	21	01	.	21.	21	7	⊽=	21	7			T				Ì	
UID LIMIT																		
DETERMINATION	\	_		4	7		Δ	3		4_		4		•	5		\perp	
DISH		VAL	12	7	A-	主/	Δ	AL	<i>331</i>			<u> 10</u>	ul	1		开		
NUMBER OF BLOWS		$\overline{7}$	_/		7	\perp		7					/	9		1110		
WT OF DISH + WE	T 501L		1_		7			7						Ju	י נ	CO	ur	上
WT OF DISH + DR	Y SOIL		<u>X_</u>	1	$\overline{}$	_		<u></u>							170	2)		
WT OF MOISTURE					\mathcal{L}	\		\mathcal{I}	7							-/		
WT OF DISH		Δ	4	١.	1	4	ĺ	<u> </u>	<u>£</u>						-		İ	_
WT OF DRY SOIL	<u> </u>	<u>/</u>		Щ,			4/	<u>/</u>		$oldsymbol{\perp}$			_				\perp	
MOISTURE CONTEN	7 /			_\/			<u>V</u>			<u>\</u>								
						0	10		20		L I QI	-	LIM	1 T	<u> </u>		<u> </u>	,
		•			<u> </u>	PL	ASTIC	SITY	ĊH/	RT			Ш					
FLOW CURV		↓	-					ļ									C	H
FLOW CURV	E			1										_				
							+	+	\Box			•		- 1				
					+			1		_								
				-												, se		
					+							CL				2,10	/	
				-								CL				2,14	_	
												CL				2.10	2	
					+ + + + + + + + + + + + + + + + + + + +							CL						
												CL					ah (0
								ACL.	- ML//								an (0
								CL	- ML/		MI		OL-				AH (0

ATTERBERG LIMITS TEST DATA

GRADATION CURVE Site SS-37-008, Sample at 0 to 0.2 feet



James M. Montgomery P.O. 2942-0130

Site ID	SS-37-008	Wt soil and dish Dry soil & dish	251 244.8
Depth	0-0.2 feet	Dish	108.8

Moisture Content = 4.6

SIEVE ANALYSIS

Dry weight of total sample= 136

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	o	100.00\$	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
‡ 4	3	97.798	97.8	4.8
# 10	3.9	97.13%	97.1	2.0
# 20	5.2	96.18%	96.2	0.85
# 40	18	86.76%	86.8	0.43
# 60	38.7	71.54%	71.5	0.25
# 100	67.3	50.51%	50.5	0.15
# 200	103.7	23.75%	23.8	0.075

MECHANICAL ANALYSIS

DATE 9/3/32 JOB NUMBER - 6061	BY	AF IM Montoon	very (
LOCATIONBORING	_ SAMPLE	000 DEPTH _	0-0.2'
NUMBER OF RINGS	Daar	DISH	304-
WT. OF RINGS & WET SOL	0/	WT. OF DISH & WET SOIL	25.0
WT. OF RINGS		WT. OF DISH & DRY SOIL	244.6
WT. OF WET SOIL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	100.0
DRY DENSITY		WT. OF DRY SOIL	
•		FIELD MOISTURE CONTENT	4.6
WACH OFF DEV S		WEIGHT OF OVEN DOY SOIL	· /

DISH	DISH	SEVE	SEVE WEIGHT ACCUMULATIVE		ACCUMULATI	Æ PERCENT
NUMBER	MEGHT	MARIER	RETAINED	WEGHT -	RETAINED	FINER
		3°				
	·	1-1/2				
		3/4*				
		3/8*		0		
		#4		3.0		
		PAN		·		
		TOTAL				

			1	ACCUM	A	COMPLATIVE PERC	
DISH NUMBER	DISH WEIGHT	SEVE NUMBER	WEIGHT	WEGHT	PAR	MAL	TOTAL
				REDUCED	RETAINED	PINER	ANER
		#10		3.9		·	
		#20		5,2		·	
		#40	***	18.0			
		#60		38,7			
		#100		67.3			
		#200		103.7			
		PAN					
		TOTAL					

James M. Montgomery P.O. 2942-0130

Site ID	SS-42-008	Wt soil and dish	260.2 257.4
Depth	0-0.2 feet	Dry soil & dish Dish	112.3

Moisture Content = 1.9

SIEVE ANALYSIS

Dry weight of total sample= 145.1

Sieve Size	Weight Retained	Finer	t Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	5.1	96.49%	96.5	9.5
# 4	13.9	90.42%	90.4	4.8
# 10	28.1	80.63%	80.6	2.0
# 20	44	69.68	69.7	0.85
# 40	56	61.41%	61.4	0.43
# 60	66.9	53.89%	53.9	0.25
# 100	80.6	44.45%	44.5	0.15
# 200	90 0	31 158	31 2	0.075

MECHANICAL ANALYSIS

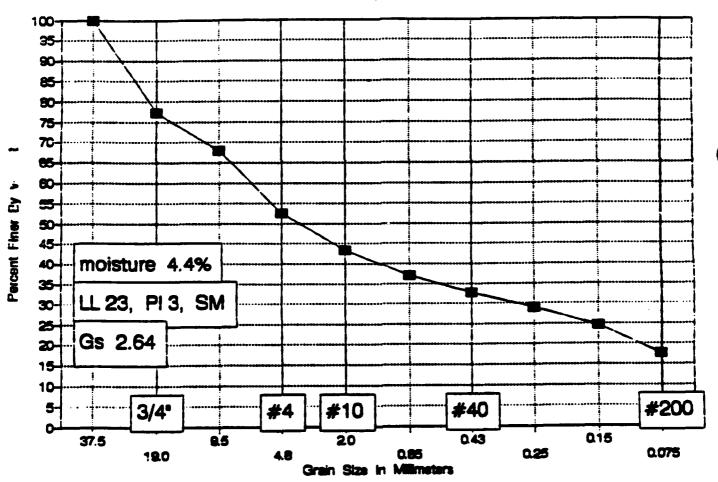
DATE 9/10/92 JOB NUMBER - 1007:		af nt <u>Jm Monta</u>	anery (
BORING	SAMPLE	009 DEPTH _	0-0.2'
NUMBER OF RINGS	page	DISH	303
WT. OF RINGS & WET SOIL	0/	WT. OF DISH & WET SOIL	260.2
WT. OF RINGS		WT. OF DISH & DRY SOIL	257,4
WT. OF WET SOL		WT. OF MOISTURE	1
FELD DENSITY		WT. OF DISH	1 112.3
DRY DENSITY		WT. OF DRY SOL	
•		FIELD MOISTURE CONTENT	1.19
WASH SIEVE DRY SIE	VE	WEIGHT OF OVEN DRY SOIL	(orans

DISH	DISH DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULATI	VE PERCENT
NUMBER	WEGHT	MARKER	RETAINED	RETAINED	RETANED	FINER
		3*				
	·	1-1/2*				
•		· 3/4°		2		
		3/8		5.1		
		#4		13,9		
		PAN		·		
		TOTAL				

			ACCUM.		A	COMMUNITYE PE	RCENT
DISH	DISH WEIGHT	SEVE NAMBER	WEIGHT	WEGHT	W	ITIAL	TOPL
				THE PARKED	RETAINED	PNER	PHER
		#10		වුපි.		·	
		#20		44.0			
		#40		56.0			
		#60		106.9			
		#100		80.6			
		#200		99,9			
		PAN					
		TOTAL					

GRADATION CURVE

Site SS-38-002, Sample at 0 to 0.2 feet



JOB NO.	-6081	OWNER	<u>Jm moni</u>	zoner	٧
				•	DATE 9/15/92

DETERMINATION NO.	EP-01-058 5-55	68-29-00, 0-45'	68-29-002 0-2.5'	9-21-001 0-02'
FLASK NO.	5	6	7	0
WT. FLASK + WATER + SOIL , W	751.02	H2.49	708:45	752.67
TEMPERATURE IN °C, T.	19°	19°	19°	19°
WT. FLASK+WATER, W :	680.99	604.72	683.25	667.77
DISH NO.	NB	46	64	61
WT. DISH+DRY SOIL	277:88	209.89	204:27	328.77
WT . DISH	167.00	164.78	162.63	224.19
WT. SOIL, Wa	110-88	45.11	41.64	104.58
SPECIFIC GRAVITY OF WATER AT T	GT 1.0002	1.0002	1.0002	1.0002
SPECIFIC GRAVITY OF SOIL. G.	2.715	2.602	2533	2.636

REMARKS

G_s = G_T W_S W_S+ W₂-W₁

SOIL TYPE _____

JOB NO.	-6091	OWNER JM MONTGOMERY
		TESTED BY VIE DATE 9/10/9

SOIL TYPE _____

	TOO NE	CB-30-010	EQ 01 - 007	122.22 0/A
DETERMINATION NO.	4.5-5	68-29-019 0-5'	EP:01-027 3:5-4'	0-5'
FLASK NO.		2	3	4
WT. FLASK + WATER + SOIL, WI	717.89	708.73	664.99	702.34
TEMPERATURE IN °C, T.	19.5°	19.5°	19.5°	19.5°
WT. FLASK+WATER, W:	684.63	603.31	641.12	682.48
DISH NO.	100	101	102	103
WT. DISH+DRY SOIL	196.53	188.45	181.51	180.30
WT. DISH	144.09	147.74	143.78	147.76
WT. SOIL, W.	52.44	40.71	<i>3</i> 7.73	32.54
SPECIFIC GRAVITY OF WATER AT T	G 1.0001	1.0001	1.0001	1.0001
SPECIFIC GRAVITY OF SOIL, G.	2.734	2.663	2.723	2.567

REMARKS

 $G_s = \frac{G_T W_s}{W_S + W_2 - W_1}$

JOB NO.	09461-029-6011	OWNER J	MINTONTGOUIERY	·
			·	DATE 8/26/92
SOU TV	F		•	

DETERMINATION NO.	59-01-004 20' =	SB-26-013 0-3	93-9K-006	98-46-014 1-1.2
FLASK NO.	1	2	3	4
WT. FLASK + WATER + SOIL, WI	718.93	734.46	691.50	720.04
TEMPERATURE IN °C, T.	19°	19-	19°	19°
WT. FLASK+WATER, W:	684.69 .	683.35	641.18	682.49
DISH NO.	.GI	51	55	52
WT. DISH+DRY SOIL	277.30	298.92	306.68	287.01
WT. DISH	223.77	217.27	227.83	226.95
WT. SOIL, W.	53.53 .	81.65	78.85	60.06
SPECIFIC GRAVITY OF WATER AT 1	r, Gr 1.0002	1.0002	1.0002	1.0002
SPECIFIC GRAVITY OF SOIL, G.	2.776	2-674	2.764	2657

REMARKS

G_s = G_T W_S W_S+ W₂-W₁

JOB NO.	05461-029-6081	OWNER	JMHIONTSONIES	Y	
				' _	DATE 9/26/92

SOIL TYPE _____

DETERMINATION NO.	93-46-015 1-1.2'	SS-34-006 0-0.2	SS-46-009 0-0.2'	EP-01-117 5.5-6'
FLASK NO.	5	6	7	8
WT. FLASK + WATER + SOIL . W	736.08	739.07	754.99	702.34
TEMPERATURE IN °C, T.	19°	19*	19.	19°
WT, FLASK+WATER, W:	680.99	684.72	68325	687.77
DISH NO.	63	46	64	28
WT. DISH+DRY SOIL	311.56	252.19	277.82	184.76
WT. DISH	224.11	164.85	162.79	161.93
WT. SOIL, W.	87.45	87.34	115.03	22-83
SPECIFIC GRAVITY OF WATER AT T	. G. (.0002	1.0002	1-0002	1.0002
SPECIFIC GRAVITY OF SOIL, G.	2.703	2.648	z.658	2.765

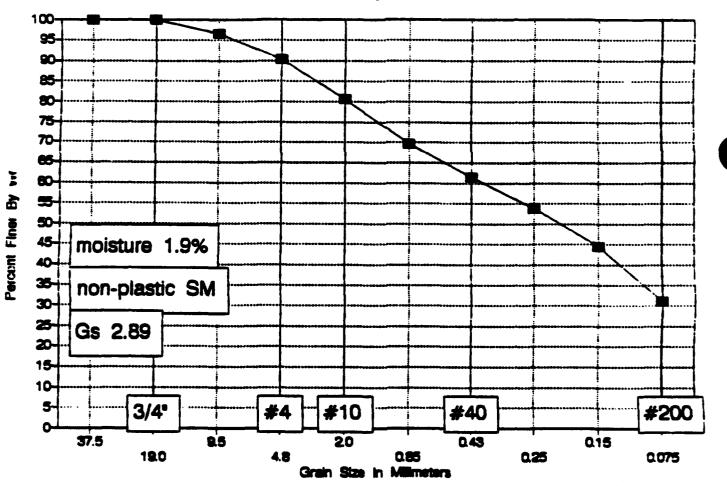
REMARKS

G_s = G₇ W₈ W₈+ W₂-W₁

							2 DETERMINATION	77	2	Z													
																							J
NUMBER OF RINGS PT OF RINGS PT OF RINGS PT OF RINGS PT OF RINGS PT OF RINGS PT OF RINGS PT OF RINGS PT OF RINGS PT OF RINGS PT OF RINGS PT OF RINGS PT OF RINGS PT OF RINGS PT OF RINGS PT OF RINGS PT OF RINGS PT OF RINGS PT OF SOLL PT OF SESSITY PRINTING PT OF DESTITY PRINTING PT OF DISM + WET SOLL		601	RING	Ģ	i-3	Ds.	AMPL	.E 💆	202	ر م	EPT	, <u>O</u>) <u> </u>										
F	IELD DENSI	TY 81	- •	//-	. - ·																		
25.24 26.27 27.27 27.27	DETERMINATI	ON		1		\top	-	?	7	[°	ETER	1 M 1 M 4	AT 10	N				1		T		2	_
	NUMBER OF R	INGS							7	[°	15H									T			_
	WT OF RINGS	+ WET SOIL									IT OF	013	н -	WET	501	L							_
	WT OF RINGS					\Box					IT OF	, 013	H +	DRY	501		_						_
	WT OF WET S	01 L									IT OF	1 MO1	STU	RE									
	FIELD DENSI	TY									IT OF	01	i H		*********				_				
			1_							Ŀ	IT OF	ORT	50	11						\perp			
£	_	_	_							<u> </u>	IE LD	MO1	STU	HE CO	DOTE	NT							_
	DETERMINATION	Oat		1					$oldsymbol{\mathbb{T}}$		3		L					5.				6	_
	DISM			46	Ш		AL	<i>7</i> 70	工				\mathbb{L}							$oxed{\Box}$			
	WT OF DISH	+ WET SOIL		16	. 34	3	17	72	_					******									
	WT OF DISH	+ DRY SOIL		<u> 14:</u>	<u>2</u> 2	_	15	<u>OL</u>		_		_	1			.	_		_				
	WT OF MOIST	UR E	 		- ,			·				*******			,,,,,,,,,,,	_		******					
			.] .		土		1.	上		_		_	١.			.	_			1			
			╀.,		_		τ	-	+			~~	丄			4		· · · · ·		4			_
	MOISTURE CO	HTENT	<u>f</u>	99	土	Ш_	90	21		<u> </u>	= 2	<u> 10</u>											-
L	QUID LIMIT																						
	DETERMINATIO)W		1			2		下		3	7	T	- (7		5		T		6	_
	OISH			Π			AL	90	T	H	_[(Æ	\prod	C	加	N	ex	701	16	布			_
	HUMBER OF B	LOWS		3	<u>儿</u>	$oxed{oxed}$	12		$oldsymbol{\mathbb{L}}$	\mathcal{I}		$\overline{}$	\coprod		W	\mathbf{r}	2	2_	1 0	0	砂		_
	WT OF DISH	PRINATION STATE OF BLOWS PRINATION TO US STORE FOR SITY THIS IS AN 1/B-INCH THREAD CLIMIT BY LAF. DESC. SUBMIT BY LAF. DESC. SUBMIT BY LAF. DESC. SUBMIT BY LAF. DESC. SUBMIT BY LAF. DESC. SUBMIT BY LAF. DESC. SUBMIT BY LAF. DESC. SUBMIT BY LAF. DESC. SUBMIT BY LAF. DESC. SUBMIT BY LAF. DESC. SUBMIT BY SOIL SUBMIT BY	12	9 3	-	$_$	\bot						2	2 carts									
	WT OF DISH	DRY SOIL	┨.	11.6	ob	-	10.	رعا			Д_	-	1.			.	_						_
		IRE	 		,	 	- 1-					٠	↓							4_			-
		-	┥・	1.4	<u>Ł</u>		1.4	<u> </u>		Д	<u>.4</u>	7].			.	_		_		_		_
			├ ╭	7 77	77	-		= 4	4/			$\not o$	+-			_				+			
	MOISTURE CO	TENT		<u>//.</u> ·	22		14	-14	<u>-1′</u>				<u> </u>										_
			1 1/8-INCH THREAD I 1/8-INCH THREAD I 2/8-INCH THREAD I 2/8-INCH THREAD I 3/8-INCH THREAD I 4/8-INCH THREAD I 1/8-INCH TH	<u> </u>	10	<u>, </u>	<u> </u>	<u> </u>						<u> </u>		<u>. </u>	1	<u>-</u>	7				
i	FLOW CU	4					4	2	<u>'ST</u>		'Y (RT	ON 1 2 - WET SOIL - PRY SOIL - URE CONTENT A 5. 6 ONL PROBLE - CATTOL TO GET - CH CH CH CH CH CH CH CH CH CH CH CH CH									
						-														ြင	H		
_				T				T	T														T
	1			一					一	\dashv					М			Г					1
	-	 	\dashv	\dashv	\dashv	-	-		十	-	\dashv	\dashv			<u></u>		_	 .	100	1	-	 -	†
;		 		 +			-		\dashv			 		 		-	-	 	4			\vdash	9:
25		1						\square	_							<u> </u>	_	<u>_</u>			<u> </u>		1
		10				•			l												L		
			コ	\Box					\neg										•	MH (No CCH	H	1
10	;	1 :	T	7	マ	$\overline{\Sigma}$	 	2 AL 70 17.77 15.01 I.4 391 2.07 10.61 I.4 24.54	一					 		+-+	Т	1	1	\Box			t
22		+	\dashv		-9	*	╀-	┝┼	-	<u> Z</u> C	L-M	_		-mi	•	OL-	-	\vdash	\vdash	╁	┢	\vdash	1
21	سبب	بببيا	يس	لبب	ڀب	m	<u>"</u>	<u></u>				W	2	L	<u></u>	<u> </u>		1_	<u> </u>		<u> </u>	<u> </u>	١
•	•			-		,	~ ∶	===				-											
SL	MMARY																						
		I WOISTUR		1.104	10.	INIT	PLAS	TIE	1011	,,,,,	LAS	1151	14.		715	CATI	00						-
	DAY DENSITY	CONTENT	1	r 100			1			· L	+ 40%	DEI	1				-						

GRADATION CURVE

Site SS-42-008, Sample at 0 to 0.2 feet



James M. Montgomery P.O. 2942-0130

Site ID	SS-38-002	Wt soil and dish Dry soil & dish	360 349.4
Depth	0-0.2 feet	Dish	107.9

Moisture Content = 4.4

SIEVE ANALYSIS

Dry weight of total sample= 241.5

Sieve Size	Weight Retained	Finer	\$ Finer	Sieve opening mm
1.5 inch	0	100.00\$	100.0	37.5
3/4 inch	54.85	77.29%	77.3	19.0
3/8 inch	77.43	67.94%	67.9	9.5
# 4	114.85	52.44%	52.4	4.8
# 10	136.58	43.45%	43.4	2.0
# 20	151.89	37.118	37.1	0.85
# 40	162.26	32.81%	32.8	0.43
# 60	171.24	29.09%	29.1	0.25
# 100	182.36	24.498	24.5	0.15
# 200	198 93	17.638	17.6	0.075

DATE <u>6/20:97</u> DOB NUMBER <u>-608</u> OCATION	BY	ent um macris	aoinne Ev
BORING SS-36	SAMPLE	007 DEPTH _	0-02
NUMBER OF RINGS	mar	DISH	308
WT. OF RINGS & WET SOIL	0	WT. OF DISH & WET SOIL	3600
WT. OF RINGS		WT. OF DISH & DRY SOL	3494
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY	1	WT. OF DISH	1 1079
DRY DENSITY		WT. OF DRY SOL	
		FELD MOISTURE CONTENT	4.4

WASH SIEVE ______ DRY SIEVE ______ WEIGHT OF OVEN DRY SOIL ______(grams

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULAT	ME PERCENT
NAMBER	MEGHT	NAMER	RETAINED	RETAINED	RETAINED	ANER
		3"				
	·	1-1/2		0		
•		· 3/4		54.85		
		3/8"		77:43		
		#4		54.85 77.43 114.85		
		PAN		·		
		TOTAL				

,]]	ACCUM	A	CCUMULATIVE PER	CENT				
ICHSH MUNKBER	DISH WEGHT	SEVE NUMBER	WEIGHT	WEIGHT	, m	TRAL.	TOTAL				
				1	REDNED	PRER	PNER				
		#10		136.58		•					
		#20		151.29							
		#40		16226							
		#6 0		171.24							
		#100		18236							
		#200		136.58 151.89 162.26 171.24 182.36 190.93							
		PAN		·							
		TOTAL									

James M. Montgomery P.O. 2942-0130

Site ID	SB-29-018	Wt soil and dish Dry soil & dish	260.2 248.6
Depth	0-5 feet	Dish	109

Moisture Content = 8.3

SIEVE ANALYSIS

Dry weight of total sample= 139.6

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	32.1	77.01%	77.0	9.5
# 4	58.1	58.38%	58.4	4.8
# 10	74	46.99%	47.0	2.0
# 20	83	40.54%	40.5	0.85
# 40	86	38.40%	38.4	0.43
# 60	87.7	37.18%	37.2	0.25
# 100	90	35.53%	35.5	0.15
# 200	94.5	32.31%	32.3	0.075

UMBER	OWNER/CLIE	m <u>Immontzon</u>	1e.Ey
ion g6B-29	SAMPLE	DIG DEPTH_	0-5'
·	SAMPLE	De in _	
NUMBER OF RINGS	book	DISH	211
WT. OF RINGS & WET SOL	0/	WT. OF DISH & WET SOL	260.2
TILO INTO A TIE OUL			
		WT. OF DISH & DRY SOL	248.6
WT. OF RINGS		WT. OF DISH & DRY SOIL WT. OF MOISTURE	248.6
WT. OF RINGS WT. OF WET SOIL			248.6
WT. OF RINGS WT. OF WET SOIL FIELD DENSITY DRY DENSITY		WT. OF MOISTURE	248.6

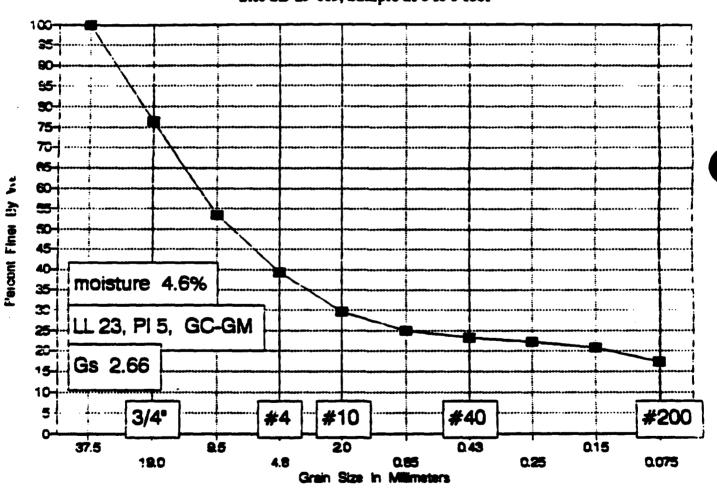
DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE	ACCUMULATE	VE PERCENT
NAMER	WEGHT	WEGHT NUMBER		WEIGHT RETAINED	RETAINED	FINER
		3*				
	·	1-1/2"				
· ·		· 3/4°		0		
		3/8-		32.1		
	-	#4		58.1		
		PAN		·		
		TOTAL				

				ACCUM	A	ACCUMULATIVE PERCENT		
DISH NUMBER	DISH WEIGHT	SEVE NUMBER	WEIGHT	WEIGHT	nv:	ITIAL.	TOTAL	
	<u></u>			"Elves"	RETAINED	PNER .	rner .	
		#10		74.0		·		
		#20		0.28				
		#40		86.0				
		#60		87.7				
		#100		90.0				
		#200		94.5				
		PAN						
		TOTAL						

	F 14710N								LOCAT	RINC	6	3-2	29s.	MPL	E (2!6	ه رخ	EPTH
FIELD DENSIT	Y :	/_	_/											-	سر	· <u>-</u> -	-	_
DETERMINATIO	·		1			2		30	TERMIN	AT IO	M			_	1		Т	_
NUMBER OF RI	N-35						┥.	01	5 M		_						+	
WT OF RINGS	WET SOIL						7	UT	3F 01	SH +	WET	501					\dagger	
UT OF RINGS	***************************************	<u> </u>	*******		*******		_	wī	OF DI	5H +	DRY	501		**		******		
WT OF WET SO	1 (-		_				wī	OF MO	ISTU	RE					_		
FIELD DENSITY	1							wT	OF DI	SH								
DRY DENSITY							\Box	WT	OF DR	7 50	L							
	S AN 1/8-IN				1			FIE	LD MO	ı STU	IE C	BTM	NT					
PLASTIC LIMIT	, , LAF.	9,0	197				_											
DETERMINATION		Ī	1			2	T	3	,	T	- 1	4	T		5,		T	
DISH		AI	10	21	AL	134				T			\neg		•		\top	
WT OF DISH +	WET SOIL	0	23	3		18				I								
WT OF DISH +	DRY SOIL	7	-92	_	*****	06				1							T	
WT OF MOISTUR	i E													_				
WT OF DISH			. 4	<u>-</u> T	ال_	4_							\Box				T	
WT OF DRY SO	ı L																	
MOISTURE CON	TENT	20).Œ	9	19.	79	7	<u>ν</u> =	20									
LIQUID LIMIT																	-	
DETERMINATION			1		:	2	Λ	3		7	- 4	•	П		5	-	T	
DISH		A	190	2	AL.	116	\top	10		1		m	W	l	7	וטו	sh)
NUMBER OF BLO)#S		27	-	16			\mathcal{T}	7			4	UK	ni	Ne	1	dP	
WT OF DISH +	WET SOIL	3	-8	6	9.0	75		\overline{I}	/				2	- [2/4	1		
WT OF DISH +	DRY SOIL	E	2.40	2	6	05								7		_	T	
WT OF MOISTUR	!E							\angle	7								$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	
WT OF DISH		_	1.4	-	1	4	1,	<u> </u>	4\				.	_		_	1	
WT OF DRY SOI		-			-0		4/			\downarrow			_				\bot	
MOISTURE CONT	ENT	20	92		20	5	<u>- V</u>			1_								
						_							LIH		_	_	_	-
FLOW CUP	RVE		\top	1:	T:		STIC	-IT-V	20 CH/	, ,			Î		_	f		70
+	+	\dashv	╁		+	+ -	+	+	+									\dashv
			- -	+ +	+	↓ - ↓	_	+		-			\vdash			$\vdash \vdash$	CI	-
		\bot	丄	 :	1:			\bot					Ш					4
1 1	•				<u> </u>													
1		\Box										CL			•			
1	!	\dashv	\top		1:	† †		+										ᅥ
	-	+	+-	+ :	+÷	╂─┤	\dashv	+	+	-								\dashv
		4	+-	 	+	╂┷┤		+		╄		٠,	4			\vdash	\sqcup	
			علا	↓	 			\bot		ما							AH B	<u>. ot</u>
	1		ト					ZCI	- MLZ		X	١						
9				T .	1				1/		ML	Ī						
9	1	+	,,,		11 >			I		1	Щ.			لسسا	_	ــــــــــــــــــــــــــــــــــــــ	لب	
3		ų,	25	30 30		50												
3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					50		••										
3		810	ws		40	\$0 \$TIC		···	ASTICI	**			CATI	_ 1				

GRADATION CURVE

Site SB-29-019, Sample at 0 to 5 feet



James M. Montgomery P.O. 2942-0130

Site ID SB-29-019

Dry soil & dish

Wt soil and dish

287.2 279.4 109.8

Depth- 0-5 feet

Moisture Content = 4.6

SIEVE AMALYSIS

Dry weight of total sample= 169.6

Sieve Size	Weight Retained	Piner	t Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	40	76.42%	76.4	19.0
3/8 inch	79.1	53.36%	53.4	9.5
# 4	103	39.27%	39.3	4.8
# 10	119.4	29.60%	29.6	2.0
# 20	127.4	24.88%	24.9	0.85
# 40	130.1	23.29%	23.3	0.43
# 60	131.9	22.23%	22.2	0.25
# 100	134.4	20.75%	20.8	0.15
* 200	140 4	17 228	17 2	0.075

DATE 9390 JOB NUMBER -6091 LOCATION	BY LOF OWNER/CLENT MMO	intromezy
BORING <u>68-29</u>	SAMPLE 019	DEPTH

NUMBER OF RINGS	Daax	DISH	313
WT. OF RINGS & WET SOL	0	WT. OF DISH & WET SOIL	2872
WT. OF RINGS		WT. OF DISH & DRY SOL.	2794
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY	•/	WT. OF DISH	109.0
DRY DENSITY		WT. OF DRY SOL	
		FIELD MOISTURE CONTENT	4.6

WASH SIEVE ______ DRY SIEVE ______ WEIGHT OF OVEN DRY SOL ______(grams)

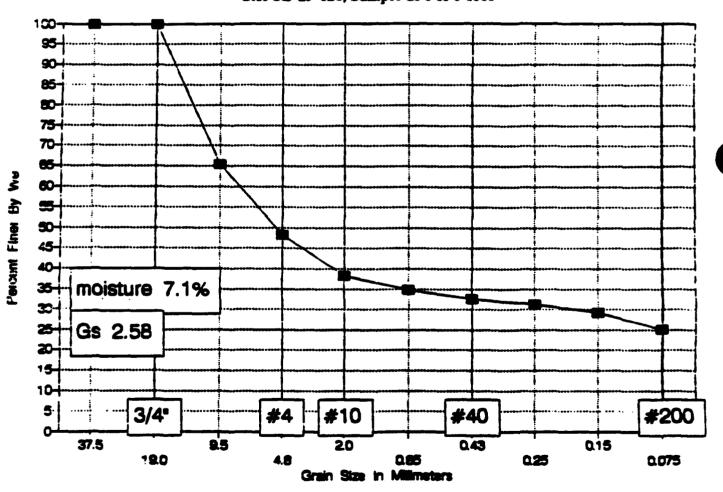
DISH	DISH	SEVE	WEIGHT	ACCUMILATIVE	ACCUMULATI	Æ PERCENT
NUMBER		RETAINED	WEIGHT RETAINED	RETAINED	FNER	
		3.				
	·	1-1/2		0		
		· 3/4°		40.0		
		3/8-		79.1		
	٠	#4		79.1		
		PAN		·		
		TOTAL				

			ACCUM	A	COMPLATIVE PE	RCENT		
DISH	SEVE NUMBER	WEGHT	WEIGHT RETAINED	M	TTAL	TOBAL		
			NE SWED	REDANCED	river.	PART		
	# 10		119.4		·			
	#20		127:4					
	#40		130.1					
	#60		131.9					
	#100		131.9 134.4 140.4					
	#200		140.4					
	PAN							
	TOTAL							

5 7	IO IS	3	0 2	25 30		40	50					<u>.</u>	<u>.</u>	·	 -	.	<u> </u>				
			_											<u> </u>							_
	•			I İ	1 1 1 1	1:	1	1 {			X	1	I	ı	1	1	1				
	-				-	 	╀-		///CI		1111	1-M	La) OL-	 	 	├—				
 	 		\vdash	\vdash	•	++	-		+	+	\ -	/		╁	 	-	 		- 3	-	_
 	+			┝╼┥	+	+	╁		+	+	+	+	1			 	-	₩		┰┤	_
	1			\Box		1				\top	\top	\top						П		\neg	
:						1				\top	\top										
													CL								
:	:				•	:											اعر ا				
	<u> </u>					1:					\bot			$ldsymbol{ldsymbol{ldsymbol{eta}}}$		<u> </u>		Ш			_
<u> </u>	 		<u> </u>	\sqcup	-	Ļį	 _			4	4	—	 	<u> </u>	<u> </u>	<u> </u>	 	U	H		4
FLOW CU	RVE		<u> </u>	┞╌┤		1	PL	AST	CIT	r cr	ART	+	-	₩	-		-	\square			_
ELOW CO	BVE					1:	<u> </u>	10	T	20	_	<u>30</u>	_	i T	<u> </u>	0	_		7	1	-
	•											L 1 Q1				_		_			
MOISTURE CO	HTENT	ئىل	22	Se	21/			71/			7										_
WT OF DRY S		Щ,		, _	, /			Ц,	_		$\downarrow \downarrow$			_				\bot			_
WT OF DISH			1.	4		<u>Д.</u>	丑		1.	4		_		. T	=_	22	<u>ا. 2</u>	9			•
WT OF MOIST	VRE		<u></u>			\mathcal{L}	T				\perp							şχ	27	6	2
WT OF DISH	DRT SOIL		<u>9:</u>	30			$ oldsymbol{igsigma} $			X				\Box	_	7	_				
WT OF DISH	WET SOIL			19		\overline{X}	\mathcal{I}		Z	\int					\perp	12	<u>t.</u>				
NUMBER OF B	LOWS		24			\overline{I}			$\overline{\lambda}$	\mathcal{I}					40	16	26	_			
015H			AL	80		A.	6		V	<u> </u>			or				un	do	0		
DETERMINATION	DN .		1		Λ	:	2	Λ		3	1		4			5				6	
LIQUID LIMIT													u	. = 	K -(W	N)	₩ W	= fi	erto 1710	*
MOISTURE CO	MTENT		9.	10		10		<u> </u>	Y	= 18			, ,			-	_	<u>بـ</u> ـــــــــــــــــــــــــــــــــــ			_
WT OF DRY S					4	,_		4		12	4			_				4			
WT OF DISH			1.	4		_	<u>.4</u>		_					. [_		_				
WT OF MOIST	ur E																				_
WT OF DISH	+ DRY 501L			12	.		21														_
WT OF DISH	+ WET SOIL		13.	24			80														
DISH				4		AL	94	-													_
DETERMINATI	ON		1				2	T	•	3	T		4	Ī	J-7	5		T		6	=
PLASTIC LIM	17 87 W	1-0	19/3	12								-		W.	7/1	LI -	يت	cur	77	1	•
	15 AN 1/8-								F	ELD M	0 I ST	IRE C	ONTE	NT				$oldsymbol{\perp}$			
DRY DENSITY										OF C	RY S	01 L					_				_
FIELD DENSI	TY								•	OF) I S H				_						_
WT OF WET S	01 L				1_				*1	OF I	10 I ST	URE									•
WT OF RINGS										OF C) I S M -	. DRY	501	L				T			_
WT OF RINGS	+ WET 5011							\neg		of (15H -	- WET	501	L				丁			
NUMBER OF R	INGS	十						\dashv	6	ISH								+	-		_
DETERMINATI	ON		;	1	$\neg \vdash$		2	\neg	01	TERMI	NAT 1	ON				1		T		2	_
FIELD DENSI	TY :	• - •	.//	<u></u> .								-		_		_		-		- •	-
15094TOPY CL45	SIFICATION		. 	. - .						1	ORIN	4	3-2	9)s	AMPL	E	Oi	3 0	EPTH	C	. –
HELL SLAISHFIE	1105		. 	. - -						1054	* 1.04										/
TERBERG CIMI	3 1231 0										#3 NT/0	44.C.C		In	$\overline{\Omega}$	77	17:	-	$\overline{\gamma}$	2	7
IERBERG LIMIT	TE TEST N	ATA								105	a		- 6	ノ・バ							

GRADATION CURVE

Site SB-29-020, Sample at 0 to 5 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-29-020	Wt soil and dish	242.8
Depth	0-5 feet	Dry soil & dish Dish	234.1 111.8

Moisture Content = 7.1

SIEVE ANALYSIS

Dry weight of total sample= 122.3

Sieve Size	Weight Retained	Finer	\$ Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	42.3	65.41%	65.4	9.5
# 4	63.4	48.16%	48.2	4.8
# 10	75.4	38.35%	38.3	2.0
# 20	79.7	34.83%	34.8	0.85
# 40	82.5	32.54%	32.5	0.43
# 60	84.1	31.23%	31.2	0.25
# 100	86.6	29.19%	29.2	0.15
# 200	91.5	25.18%	25.2	0.075

MECHANICAL ANALYSIS * 170 PI

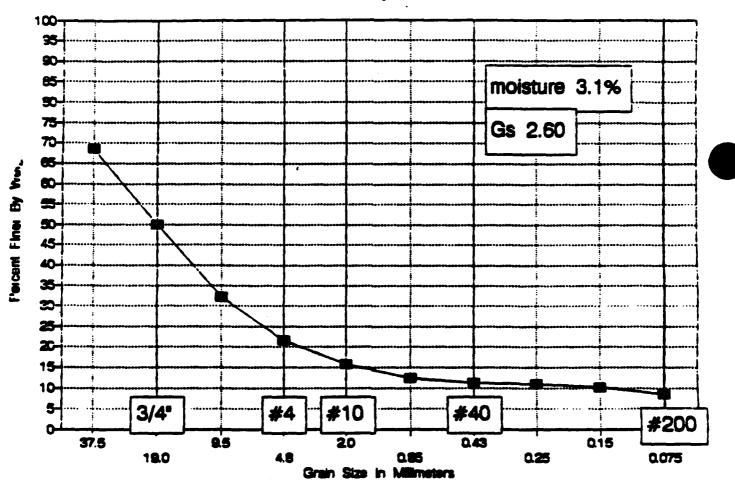
DATE	DI	un um montso	merzy	
BORING	SAMPLE	02.0 DEPTH _	0-5'	
NUMBER OF RINES	bar	DISH	216	
WT. OF RINGS & WET SOL	0/	WT. OF DISH & WET SOIL	242.8	
WT. OF RINGS		WT. OF DISH & DRY SOL	234.	
WT. OF WET SOL		WT. OF MOISTURE		
FIELD DENSITY		WT. OF DISH		
DRY DENSITY		WT. OF DRY SOL		
		FIELD MOISTURE CONTENT	1.7.1	
WASH SIEVE DRY SIE	YE	WEIGHT OF OVEN DRY SOL	(gre	ms)

DISH	DISH	SEVE	WEIGHT	ACCUMALATIVE	ACCUMULATE	VE PERCENT
NABER	WEGHT	NAMER	PETANED	WEGHT PEPANED	RETAINED	PINER
		3*				
	·	1-1/2				
•		3/4"		0		
		3/6"		42.3		
		#4		634		
		PAN		·		
		TOTAL				

			11	ACCUM		COMPLETIVE PER	THE		
DISH MUMBER	DISH WEIGHT	SEVE MANUE	MANUE	MANGER	WEGHT	WEIGHT	PAGE 1	MAL	TOTAL
	·			RETAKED	RETANED	PNER	rner		
		#10		754		·			
		#20		79.7					
		#40		82.5					
		#60		84-1					
		#100		26.6					
		#200		9.5					
		PAN							
		TOTAL							

F-860 C04851F1547	624							JOB N	T/0#N	کــ ۶۶۰	<u> 11) </u>	117	10		= 0	בבו
L48094TG#* (L435)								LOCAT	10N	22-	12.		α	20		
FIELD DENSIT	_		-					80	RING		د رید	AMPLE	Ų.	<u>í</u>	_ 56	PTH
						_									-	
CITANIMASTO		1			2		—	TERMIN	AT 104				1		<u> </u>	2
NUMBER OF RI						4	61								4_	
WY OF RINGS	#ET 501L	***********						OF 01:		****	*******				-	
WT OF RINGS			-	_				OF 01				-				
WT OF WET SO						_		OF MO							↓_	
FIELD DENSITY	<u>' </u>					-		OF 01				_		_	.	
DRY DENSITY	S AN 1/8-INCH	THREAD			·		-	OF DR				-			╄	
								ELD MO	STUR	E CONT	ENT				Щ.	
PLASTIC LIMIT	بسرايك ٥٠	./-/														
DETERMINATION		1			2		:	3			.]		5		T	6
DISH			0	<i>U'</i> _/	1	107	-7	2111] -	ec-					1	
WT OF DISH +	WET SOIL			Οť	Er	ला	17:1	7	ar	アル	اس					
WT OF DISH +	DAY SOIL							(EL)								_
WT OF MOISTU	E							n		en	oul	<u>o</u> h	_<	4	b.	
WT OF DISH	***************************************								Ī				*******	_		
WT OF DRY SO	L										-			_	'	
MOISTURE CON	TENT										I					
LIQUID LIMIT						•	_									
DETERMINATION	· · · · · · · · · · · · · · · · · · ·	1	<u> </u>		2	7		,	1	-			5		1	6
DISH		•	-+	·		+			╫		┷		<u> </u>		\vdash	
NUMBER OF BLO	ws.		_			-	١.		┿		\dashv				╁	
WT OF DISH +			\dashv			+			╁┈						+-	
WT OF DISH +		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			-				 						┼	
WT OF MOISTUR	E		-			1		_	-	_	-	_	_	_	•	
WT OF DISH		************							1					**********	1	
WT OF DRY SOL	L		-			-			-		-			_	'	
MOISTURE CONT						+			\vdash					_	T	
							*									
·					0	10		20	30 L	9010	40	4 1 T 50)	60)	70
FLOW CUP	VE				PL	ASTI	CITY	CHA	RT							T
		1	1:	++	П	1	+	1		+	1	\Box	\dashv		CH	十
		+ +	+ +	╅÷	+	+	+	-	-	+	╁	┼┼	-+	-+	$\vec{\exists}$	+
	<u> </u>	+ +	 	4	\vdash		+	_	$\vdash \downarrow$		+	\sqcup	_	_		*
	•		1:	1:							L			أرشى	1	
!	•	$+$ Γ					T		T	CI	-		8,2			T
•	:			1:												\neg
	· · · · · · · · · · · · · · · · · · ·	+ +	+ ;	╁	+	-	+		+	-	+	1	+	\dashv	\dashv	十
-	<u> </u>	+ +	+÷	$+\div$	1		+		\vdash		u			-+	+	-
	<u> </u>	$\bot \bot$	↓ ÷	↓ ;	Ш		\bot			\mathcal{L}	1_			M	H &	OH
		1_1					//C1	- ML///				[[_ [
		7	T .	1 :	1		4	_		-MĻ 8	OF.	T			\neg	\neg
			، ا)	1		1	1	1	1 .	1			
5 7	IS UMBER OF	.70 25			\$0				L.		1	<u> </u>				

GRADATION CURVE Site SB-29-022, Sample at 0 to 5 feet



James M. Hontgomery P.O. 2942-0130

Site ID	SB-29-022	Wt soil and dish Dry soil & dish	323.3 316.8
Depth	0-5 feet	Dish	109.9

Moisture Content = 3.1

SIEVE ANALYSIS

Dry weight of total sample= 206.9

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	65.1	68.544	68.5	37.5
3/4 inch	103.5	49.98%	50.0	19.0
3/8 inch	140.5	32.09%	32.1	9.5
# 4	162.5	21.46%	21.5	4.8
# 10	174.4	15.71%	15.7	2.0
# 20	181.4	12.32%	12.3	0.85
# 40	183.4	11.36%	11.4	0.43
# 60	184.4	10.87%	10.9	0.25
# 100	185.8	10.20%	10.2	0.15
# 200	189 2	2 552	R 6	0.075

MECHANICAL ANALYSIS +no PI

DATE 9/14/97 JOB NUMBER - 6061	BY	af m Jm Monts	omery
LOCATION			251
BORING <u>66-20</u>	SAMPLE	<u>07.2 </u>	0-5'
NUMBER OF RINGS	Loca	DISH	22
WT. OF RINGS & WET SOL	0/	WT. OF DISH & WET SOL	323.3
WT. OF RINGS		WT. OF DISH & DRY SOL	316.8
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY .		WT. OF DISH	1 109.9.
DRY DENSITY		WT. OF DRY SOL	
		FIELD MOISTURE CONTENT	3.
WASH SIEVE DRY SE	VE	WEIGHT OF OVEN DRY SOIL	(grams)

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE	ACCUMULAT	ME PERCENT
NAMBER	WEGHT	NAMER	RETAINED	WEIGHT	RETAINED	PNE
		3-		0		
	·	1-1/2*		65.1 103.5 140.5 162.5		
•		· 3/4°		103.5		
		3/8"		140.5		
		#4		162.5		
		PAN		·		
		TOTAL				

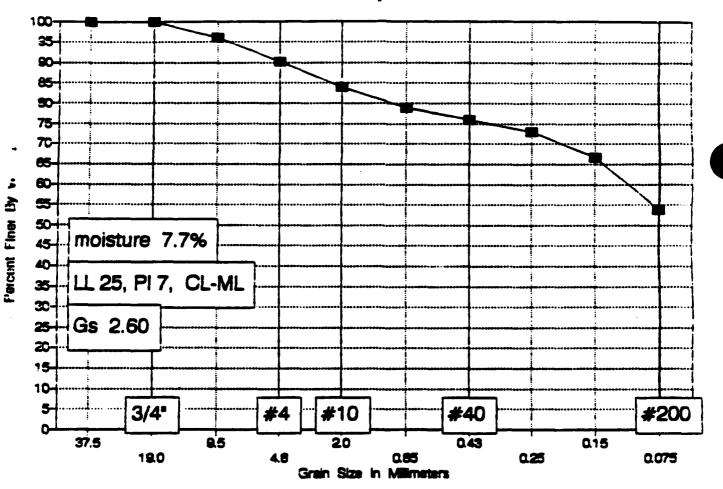
				ACCUM			CENT
OISH NUMBER	DISH WEIGHT	SIEVE NUMBER	RETAINED	WEIGHT	M	TRAL.	TOTAL
				NE MED	RETAINED	FNER	FNER
		#10		1744			
		#20		1814			
		#40		1834			
		#60		1844			
		#100		185-8			
		#200		189-2			
		PAN					
		TOTAL				•	

NC I TAMIMA 3 T 3 O	1		T		?		0	ETER	MINAT	0 N				1	_	\Box	
NUMBER OF RINGS							0	ISH								I	
WT OF RINGS + WET SOIL							ļ		DISH							I	
WT OF RINGS								T OF	DISH	- 081	501	<u> </u>	_		_		
WT OF WET SOIL			↓_			_	-	T OF	M0157	URE					-		
FIELD DENSITY			\bot			_		T OF	DISH				_				
THIS IS AN 1/8-INC	n 74054		<u></u>				⊢		ORT S							+	
PLASTIC LIMIT & UF.							Ľ	ונ נס	MOIST	URE C	OWITE	MT .					
DETERMINATION	1			2		T		3			1			5,		T	
DISH				0	UL	त	00	2F	ĮŽ,	Jn	<i>_</i>	es	十				
WT OF DISH + WET SOIL			F	no	汇	Ar	70	16	100		γ	ρ'.	2				
WT OF DISH + DRY SOIL									100				_		_	T	
WT OF MOISTURE						_	U			,						4	
WT OF DISH		_					_		-			.	_		_		
WT OF DRY SOIL			╀			_										+	
MOISTURE CONTENT																	
LIQUID LIMIT																	
DETERMINATION	1			2	<u> </u>	\prod		3			4			5			
DISH																	
NUMBER OF BLOWS			↓_			\bot						_				╀-	
WT OF DISH + WET SOIL			<u> </u>			_										4	
WT OF DISH + DRY SOIL			1.	-	 .		_		-			.	_		_		
WT OF MOISTURE		********						····								+	
WT OF DRY SOIL	-	_			_		_		-			.	-		_	1	_
MOISTURE CONTENT			+-			╁										┿	
					0	10		20		L 1 0				<u> </u>	-		,
FLOW CURVE									HART			Ĺ					
			-													Ü	H
			,							T							
		十	:	+			一		_	十	T	T					1
	+-+	\dashv	-	H		-			-	+	CL	┼	-	\vdash			
		-		 						+	-	 	-	 ,	_	\vdash	
	11			ļ.						4	 	<u> </u>				\sqcup	
				-:-								1				444	0
	1 1	\exists	·	1													
					┢╌		<u> </u>	L-M		 M	Ļ ·	Or.	一		-		
 	1 1		•	,													

ATLERBERG LIMITS TEST DATA

GRADATION CURVE

Site SB-29-029, Sample at 0 to 5 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-29-029		Wt soil and dish	197.5 190.9
Depth	0-5 feet	•	Dry soil & dish Dish	105.3

Moisture Content = 7.7

SIEVE ANALYSIS

Dry weight of total sample= 85.6

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	٥	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	3.4	96.03%	96.0	9.5
# 4	8.4	90.19%	90.2	4.8
# 10	13.6	84.11%	84.1	2.0
# 20	17.9	79.09	79.1	0.85
# 40	20.6	75.93%	75.9	0.43
# 60	23	73.13%	73.1	0.25
# 100	28.5	66.71%	66.7	0.15
# 200	39.5	53.86%	53.9	0.075

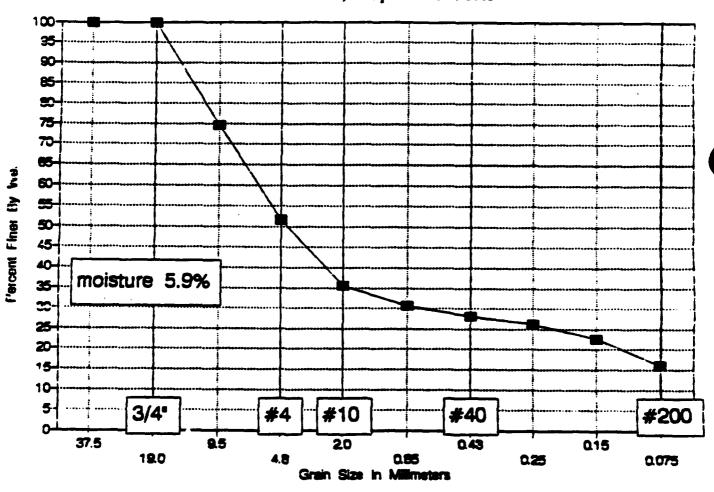
DATE 9/3/92 BY JOB NUMBER 606 OW LOCATION	MERICUENT UM MONTGOMOR	21
BORING <u>6B-29</u> sa	MPLE 029 DEPTH 0-	-5'
NUMBER OF RINGS	DISH	9
WT. OF RINGS & WET SOL	WT. OF DISH & WET SOIL	77.5
WT. OF RINGS	WT. OF DISH & DRY SOL	90.0
WT. OF WET SOL	WT. OF MOISTURE	
FIELD DENSITY	WT. OF DISH	05.3
DRY DENSITY	WT. OF DRY SOL	~~
•	FIELD MOISTURE CONTENT	7.7
WASH SIEVE DRY SIEVE	WEIGHT OF OVEN DRY SOIL	(grams)

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE	ACCUMULATI	Æ PERCENT
NAMBER	MEGHT	MARIER	RETANED	WEIGHT RETAINED	RETAINED	FNER
		3*				
		1-1/2"				
•		· 3/4°		0		
		3/8-		3.4		
		#4		3.4 8.4		
		PAN		·		
		TOTAL				

				ACCUM	A	COMPLATIVE PER	RCENT
DISH NUMBER	DISH WEIGHT	SEVE NUMBER	WEIGHT RETAINED	WEIGHT	PAR.	TTAL	TOTAL
				TE STEE	REDAMED	PHER	FINER
		#10		13.6			
		#20		17.9			
		#40		20.6			
		#60		23.0			
		#100		23.0 28.5 39.5			
	1	#200		39.5			
		PAN					
		TOTAL					

ERBERG LIMITS	TEST DA	TA						ا ق	OB 4 LIEN OCAT	<u> </u>		<u>- </u>	2	F	 	-	است	77	م ت
FELD CLASSIFICATIO	: \							£1	LIEN	7/0w	N E P				1.11.	-11-		7 !	-
4509470FY CLASSIF	TATION							L	7 A 3 O	ION, RINC	C	2/	a.		. /	77	,		
									EO	RINC	9	72	275	AMPL	بو ٤.	125	/_ D	EPTI	۱ - ۱
FIELD DENSITY	٠٠٠-	•/	·/ ·																
NCITAMIMASTSO			1		- 7	}] [DETE	RMIN	AT 10	N				1		\perp		2
NUMBER OF RING	\$						_	CISH	 								\perp		
WT OF RINGS +	●ET SOIL						_	WT 3	F 01	\$H +	WET	501	-	-	-				
WT OF RINGS				.				WT 0	F DI	5H +	DRT	501	_	_		_			
WT OF WET SOIL] [# T 0	F MO	ISTU	RE								
FIELD DENSITY] [WT O	F DI	SH							T		
DRY DENSITY						•] [wT 0	F DR	Y 50	11								
THIS IS	AN 1/8-IN	CH THR	EAD -					FIEL	D MO	STU	RE C	ONTE	MT				T		
PLASTIC LIMIT	I LAF	00	92			_										_	,		
		,					_			_							· ——		_ _
DETERMINATION			1		2			3		+-		<u> </u>			5,	·	+		6
DISH		12			7	_	-			 -							+-		
WT OF DISH + W		-	47	***********	4.												- -		
WT OF DISH + D		10	.80	.	14	70	-		_				.	_		_			
WT OF MOISTURE		·····				·/·····		*******											
WT OF DISH			<u>.4-</u>	.	1.	4_	-			1			.	-				_	
WT OF DRY SOIL				. 		~~	╀		_	┼_			_				+		
MOISTURE CONTE	NT	عليا	1.7	<u> </u>	止	93	ىل	(=1	9										
LIQUID LIMIT																			
DETERMINATION			1		2		7	3		T	- 1	1			5		T		6
DISH		AL	10	7	19	3	1	24		1							Ť		
NUMBER OF BLOWS	5		8		16		1	9		1			T				十	_	
WT OF DISH + W	ET SOIL		45			34		1.7	6	1							T		
WT OF 015H + DF	T SOIL	*********	44	-	92			35		1							1		-
WT OF MOISTURE				· I			-		_	}			`	-		_	1		
WT OF DISH			.4		1.2	F	1	1.4	-	7									
WT OF DRY SOIL							-							_					
MOISTURE CONTER	NT	25	2.00	2	26	28	12	7.9	20								I		
<u> </u>																			
						0	10		70		, i Qu		L P		10		<u> </u>	7	0
FLOW CURV	E		Ĭ			PLA	STIC	ITY	CHA	RT									
	•		1		1			1							1		C	×	
			+	┝╌	 	\vdash	+	+	\vdash		-	-	-	-	 	_	 		7
	<u> </u>		4	 	 	┡┷┼		4_	1_	_	_	<u> </u>	!		 _	<u> </u>	_		
				:								L_				1	/		L
												CL			,				
7	1		+	+	 		\top	1	一	1			1						┢
8 0	•		╫	+	 	-		+-	-	-	-	├	 -	/	}—	┝	⊢	-	├—
2				<u> </u>	1	lacksquare	4	\downarrow				L_		<u> </u>	↓_		<u> </u>	L_	 _
	74	ગ		:_	1:		_1_	1_	<u>L</u> .	٦			L	L	L		WH (0	H
6		7	1	1	1			Ţ.,		ĽZ									Γ
5 		_	1	+	+	1		CL-I			ML		OL-		t	\vdash	1	\vdash	十
<u></u>	15		بتبل	تسا	<u>.</u>	بيا			10	Ц_	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u></u>	Щ.	<u> </u>	<u> </u>	_
	13	.70	25 3 15	•	•0	50				•									
	MBER OF		- •																
	MBER OF		- •																
N U	MBER OF	_		LIMIT	PLAS	TIC L	imit	PLAS	YICI OER	TT		TIF	CAT	on					-

GRADATION CURVE Site SB-29-034, Sample at 0 to 5 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-29-034	Wt soil and dish Dry soil & dish	246.9 239.2
Depth	0-5 feet	Dish	108.2

Moisture Content = 5.9

SIEVE ANALYSIS

Dry weight of total sample= 131

Sieve Size	Weight Retained	Finer	t Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	33.3	74.58%	74.6	9.5
# 4	63.4	51.60%	51.6	4.8
# 10	84.4	35.57%	35.6	2.0
# 20	90.9	30.61%	30.6	0.85
# 40	94.1	28.17%	28.2	0.43
# 60	96.7	26.18%	26.2	0.25
# 100	101.3	22.67%	22.7	0.15
# 200	110 2	15 995	15 0	0.075

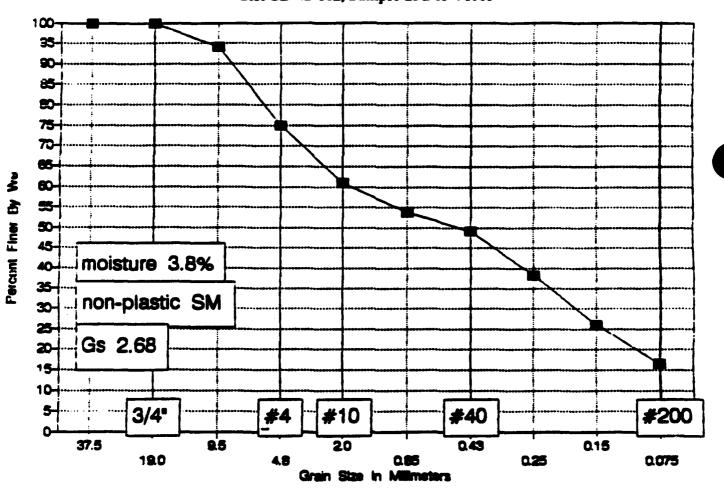
no PI # no pictific dipavity

DATE <u>9/3/92</u> JOB NUMBER <u>- 608/</u>	BY	if Im Montbon	nery
LOCATION BORING	. SAMPLE	034 ретн_	0-5'
NUMBER OF RINGS	1 vaar	DISH	300
WT. OF RINGS & WET SOL	0	WT. OF DISH & WET SOL	246.9
WT. OF RINGS		WT. OF DISH & DRY SOL	239.2
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	100.2
DRY DENSITY	7	WT. OF DRY SOL	1
	•	FELD MOISTURE CONTENT	· <i>59</i>
WASH SIEVE DRY SI	EVE	WEIGHT OF OVEN DRY SOIL	(orams)

DISH	DISH	WEGHT				E PERCENT
NUMBER	WEGHT	NAMBER	RETAINED		RETAINED	FINER
:		3"				
ا	·	1-1/2"				
,		. 3/4"		0		
		3/8"		33.3		
		#4		33.3		
		PAN		·		
		TOTAL			·	

				ACCUM	A	COMMUNTIVE PER	ICENT				
DISH NUMBER	DISH WEIGHT		SEVE		NUMBER		WEIGHT RETANED	WEIGHT RETUNED	PAF	MAL	TOTAL
	<u> </u>			NE DEC	RETANED	FNER	FNER				
		#10		84.4		·					
		#20		909							
		#40		94.1							
		#60		96.7							
		#100		101.3		•					
		#200		110.2							
1		·				·					
		PAN									
		TOTAL				•					

GRADATION CURVE Site SB-42-002, Sample at 2 to 4 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-42-002	Wt soil and dish Dry soil & dish	263.2 257.7
Depth	2-4 feet	Dish	111.7

Moisture Content = 3.8

SIEVE ANALYSIS

Dry weight of total sample= 146

Sieve Size	Weight Retained	Finer	\$ Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	8.6	94.118	94.1	9.5
# 4	36.7	74.86%	74.9	4.8
# 10	57	60.96%	61.0	2.0
# 20	67.3	53.90%	53.9	0.85
# 40	74.3	49.11%	49.1	0.43
# 60	89.9	38.42%	38.4	0.25
# 100	108.1	25.96%	26.0	0.15
# 200	121.9	16.518	16.5	0.075

DATE		af_ un_ummontgon	nery
ORING <u>68-42</u>	SAMPLE		2-4'
NUMBER OF RINGS	mar	DISH	302
WT. OF RINGS & WET SOL	0/	WT. OF DISH & WET SOIL	1.203.2
WT. OF RINGS		WT. OF DISH & DRY SOL	257.7
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH]] [] -
DRY DENSITY		WT. OF DRY SOIL	
•	·	FIELD MOISTURE CONTENT	3.8
VASH SIEVE DRY SIE	VE	WEIGHT OF OVEN DRY SOIL	(oran

DISH	DISH	SEVE	WEGHT	ACCUMILATIVE	ACCUMULAT	ME PERCENT
NUMBER	MEGHI	NAMER	RETAINED	WEGHT	REDAKED	FINER
		3"				
		1-1/2"				
·		3/4*		D		
		3/6		86		
	·	#4		36.7		
		PAN				
		TOTAL				

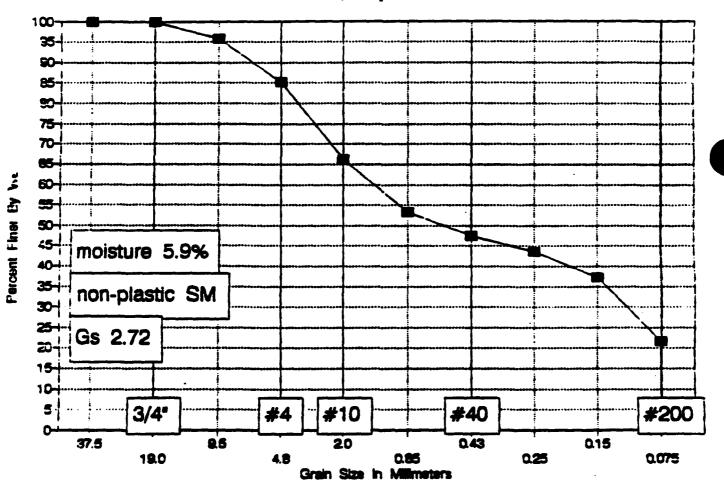
				ACCUM	A	COMMUNITYE PE	CENT					
DISH NUMBER	DISH	SEVE NAMES					SEVE NUMBER	WEIGHT	WEIGHT	PNF	ITIAL	TOBAL
					METANED	MER	7467					
		#10		57.0		•						
		#20		67.3								
		#40		74.3								
		#60		89.9								
		#100		108.1								
		#200		121.9								
		PAN										
		TOTAL										

RBERG LIMITS TEST DAT	ГА							٦٥	8 40	:. <u> </u>	W 6 5	<u>-</u>	1X	25	YW	سار		-)i	ز ۱	٠.
ED CLASSIFICATION				- -																
SPATOPY CLASSIFICATION								LO	CATI	ION _ RING	CS	2_/	2		. /	70	2 .		. /	2-
									80	RING			بخرح	MPL	٤ ٢		- :	1661	مر "	
TELD DENSITY 87	•//-	- ·														_				_
NCITANIMRETEO	1			2	?	7	6	ETE	M I M I	AT 101					1		T		Ž	
NUMBER OF RINGS						1	Ī	15H									7	-		
WT OF RINGS + WET SOIL							 	IC TI	01	SH +	WET	501					T			
WT OF RINGS)	**********	 	*******	*****		7	T 01	01	H +	DRY	501								
WT OF WET SOIL		_	'			-		T 01	MO	STU	l E			-				_		_
FIELD DENSITY				_		7	-	T 01	01:	5 H			_	~			+			
DRY DENSITY			\vdash			7	17	T 01	DRI	501	L			_		_		_		_
THIS IS AN 1/8-IN	CH THREAC	=				_	ļ	IELO	MOI	STUR	E C	ONTE	17				十	_		_
LASTIC LIMIT BY LOF		_					-								_	-				_
LASTIC LIMIT BY UZU.	-73277	·						_												
DETERMINATION	1		1	2		I		3				L			5,				6	
DISH	ALI	20	\prod	AL	厅				CC	וטג	Λ	Y	0		W	1126	, L	a		
WT OF DISH + WET SOIL				\	I	T						10	W	11	<u>J)</u>		$oxed{\prod}$			
WT OF DISH + DRY SOIL				Z	L	T														
WT OF MOISTURE		<u> </u>		X						L				-						
WT OF DISH	/1.4	7		X.	4	T			_								7			
WT OF DRY SOIL			$\perp 7$		7	j				Ι΄							_[_	_	_
MOISTURE CONTENT	/		V			V											Τ	_		
IQUID LIMIT	.																			
			JÇ.			'n				7			T				-		_	_
DETERMINATION	1	 /	1	<u> </u>		/	\ \ \	3		4—		4	, d.	/	5		#		•	
DISH	AL	14/		#	92	/ -	/ A		Ц	\		CC	4						1	
NUMBER OF BLOWS		/	-	+	-/	+	+		+	┼			-			4			, 	
WT OF DISH + WET SOIL	X	, 	ļ	- +	-/ -			\	/	 			-4	10	쓳	باني	#	JY		
WT OF DISH + DRY SOIL	<u> </u>	\leftarrow	-	}	(-		_	¥	-	•			.	_	16	2	7	_	-	-
WT OF MOISTURE	-/- / - /	-/	ļ	+	"/- -			A		-							+			
WT OF DISH	/1.4	- \	٫ ا	//.4	4		7	4	4	•				_		_		_		-
WT OF DRY SOIL	/	-	 			+	+		+	╁			-+				┽			
MOISTURE CONTENT	/	,	<u> </u>			\mathcal{W}			<u> </u>	ļ	_						L_			
												10	LIM							
			1 1		•			2	_	<u> </u>	-	4	•	9	9		<u> </u>	7	70	_
FLOW CURVE	\rightarrow		:	<u> </u>		AST		Y	SHA	RT.							<u> </u>	lacksquare	lacksquare	\perp
: :			!	- 1									L				_ c	Н		
,				·																T
	+++	+	+ +	+	\vdash							-				—			1-	+
1 1	-+	+	: 	÷	-	\vdash	\dashv						\vdash		-		μ/	-	+-	+
	\bot											CL				<u>Z</u>		_	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	\perp
;			:	:													1			
																			1	T
	++	+-	+			\dashv											_		 	t
		-	+	-	-	\square							<u> </u>			<u> </u>	WH	+	+	+
			:					L-N		111/			 -						_	
			$\cdot \cdot \cdot$;																T
1	ud uds		rul	•																

DAY DENSITY	THETMES	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY	IDENTIFICATION
					NP

GRADATION CURVE

Site SB-42-006, Sample at 2 to 4 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-42-006	Wt soil and dish	202.1
		Dry soil & dish	196.7
Depth	2-4 feet	Dish	104.7

Moisture Content = 5.9

SIEVE ANALYSIS

Dry weight of total sample= 92

Sieve Size	Weight Retained	Finer	\$ Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	3.8	95.87%	95.9	9.5
# 4	13.7	85.11%	85.1	4.8
# 10	30.9	66.41%	66.4	2.0
# 20	43	53.26%	53.3	0.85
# 40	48.4	47.39%	47.4	0.43
# 60	52	43.48%	43.5	0.25
# 100	57.8	37.17%	37.2	0.15
# 200	72 2	21 528	21 5	0.075

NTE 9/14/92 DB NUMBER 6061	BY	AF JM Montbo	mery
CATION			
ORING <u>68-42</u>	SAMPLE	_006	7-4
NUMBER OF RINGS	nav	DISH	86
WT. OF RINGS & WET SOL	0/	WT. OF DISH & WET SOIL	202.
WT. OF RINGS		WT. OF DISH & DRY SOL	196.7
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY	/	WT. OF DISH	104.7
DRY DENSITY	/	WT. OF DRY SOL	
		FELD MOISTURE CONTENT	50

DISH DISH SEVE WINGLIT ACCUMULATIVE ACCUMULATIVE PERCENT	

DISH	DISH	SEVE	WEGHT	ACCUMULATIVE WEIGHT	ACCUMULAT	WE PERCENT
NUMBER	WEIGHT	NUMBER	RETANED RETANED		RETAINED	FINER
		3.				
	·	1-1/2				
•		3/4°		0		
		3/8"	•	3.8		
		#4		137		
		PAN		•		
		TOTAL				

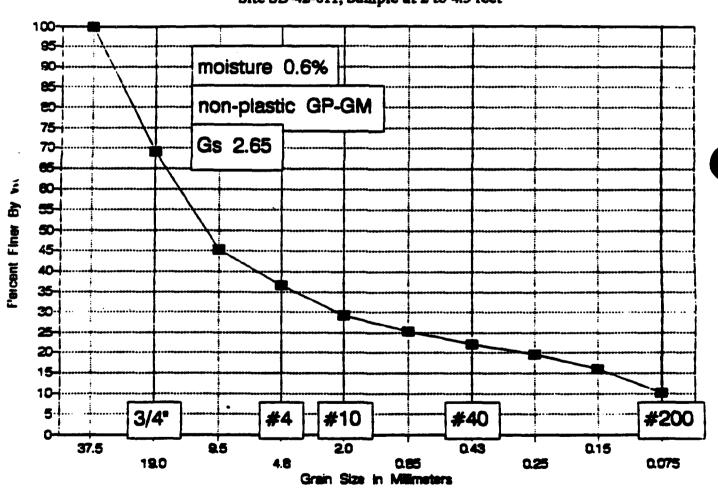
		DISH SIEVE WEIGHT NEWSON REDUNED	ACCUM	ACCUMULATIVE PERCENT			
DISH DISH NUMBER WEIGHT	RETANED		WEGHT	PARTIAL		TOTAL	
			RETAND	RETAINED	FINER	PNER	
		#10		30.9		·	
		#20		43.0			
		#40		48.4			
		#60		59.0			
		#100		57.8			
		#200		72.2			
		·					
		PAN					
		TOTAL				•	

LIQUID LIMIT PLASTIC LIMIT

BENTIFICATION

DRY DENSITY

GRADATION CURVE Site SB-42-011, Sample at 2 to 4.5 feet



James M. Montgomery P.O. 2942-0130

Site ID	SB-42-011	Wt soil and dish	316.8
		Dry soil & dish	315.6
Depth	2-4.5 feet	Dish	108.7

Moisture Content = 0.6

SIEVE ANALYSIS

Dry weight of total sample= 206.9

Sieve Size	Weight Retained	Finer	% Finer	Sleve opening mm
1.5 inch	0	100.004	100.0	37.5
3/4 inch	64	69.07%	69.1	19.0
3/8 inch	113.4	45.19%	45.2	9.5
# 4	131.1	36.64%	36.6	4.8
# 10	146.4	29.24%	29.2	2.0
# 20	154.7	25.23%	25.2	0.85
# 40	161	22.18%	22.2	0.43
# 60	166	19.77%	19.8	0.25
# 100	174	15.90%	15.9	0.15
# 200	186	10 10%	10 1	0.075

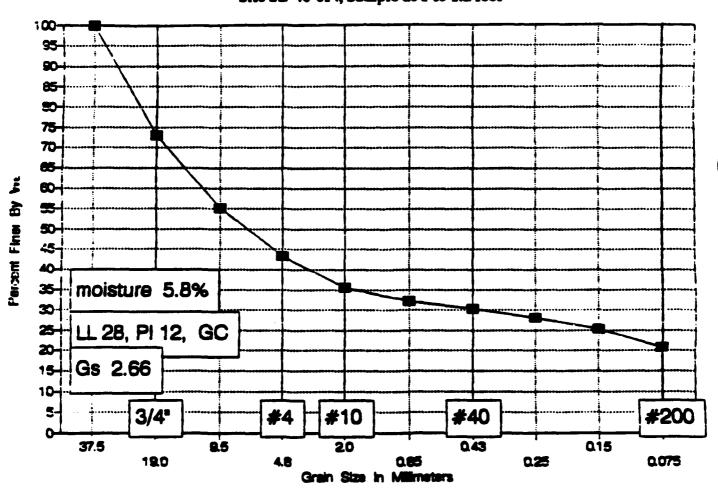
UMBER	BY	ENT_UM MONTGOT	nery
G <u>GP-42</u>	SAMPLE	OI) DEPTH_	2-45'
NUMBER OF RINGS	pag	DISH	201
WT. OF RINGS & WET SOL	0/	WT. OF DISH & WET SOL	1.710.0
WT. OF RINGS		WT. OF DISH & DRY SOL	315.6
	· • • • • • • • • • • • • • • • • • • •	WT. OF MOISTURE	
WT. OF WET SOL		I WI. UT MUDIUME	1
WT. OF WET SOIL FIELD DENSITY	//	WT. OF DISH	1087
WT. OF WET SOL FIELD DENSITY DRY DENSITY			108.7

DISH	DISH	SEVE	WEGHT	ACCUMULATIVE	ACCUMULATI	VE PERCENT
NUMBER	WEIGHT	RETAINED RETAINED	WEIGHT RETAINED	RETAINED	FNER	
		3"				
	·	1-1/2				
•		· 3/4°		64.0		
•		3/8"		113.4		
		#4		131.1		
		PAN		·		
		TOTAL				

				ACCUM	A	RCENT		
NUMBER	DISH DISH NUMBER WEIGHT	SEVE NUMBER	WEGHT	WEGHT	PARTIAL		TOTAL	
					RETAINED	THER	FNER	
	•	#10		146.4				
		#20		154.7				
		#40		161.0				
		#60		166.0				
		#100		174.0				
		#200		186.0				
		•						
		PAN						
		TOTAL						

ERBERG LIMITS	TEST D	ATA							J	08 4	: <u> </u>		(<u> </u>	갂	17.	<u> </u>		α?Ł		- -
ELC CLASSIFICAT	10N													ш		<u> </u>	-15 /	ڪنڙ	<u> </u>		_
3094TOPY CL4351		_		_	_				·	CAT			21	7.		- 1	71.1		EPTH		<u> </u>
FIELD DENSIT										€0	# 1 # C	5 7,	2° 5 .	- 5	MPL	נ ַנ	<i>!</i> !	- "	EPTH	-4	L
CITANINATIO		<u> </u>		ì	- T-		2	7	DET	00 1 H	—. v ≜1			_		1		T		2	_
NUMBER OF RE		+-			-		•		015			_		_		<u> </u>		┿		<u> </u>	_
WT OF RINGS		+			-			-)F 01:		-61	501					+			_
UT OF RINGS	- WE . 3010	+-		••••••				-		of 91								+			
					.	-		-		P #0				-	-		_		_		-
WT OF WET SO		+-			+			-						\dashv				4-	-		,
FIELD DENSIT	T 	+-			-)F 01					_	_	_				-
DRY DENSITY	S AN 1/6-	<u></u>	7 2 2 5						-)F 9A		_						+			_
PLASTIC LIMIT										LO 100		AE C	GRIT E	<u> </u>							_
DETERMINATIO	· · · · · · · · · · · · · · · · · · ·	Λ	1		Λ		?	Z	3		L		4			5.		Τ		6	_
DISM			HL.	12	0	XL	1Q2	<u> </u>		<u> </u>	نساليا	<u>1 y</u>	10	Ł	Hn	Cl	40				
WT OF DISH +	WET SOIL		7			$\overline{}$				********	_				*****			\perp			
WT OF DISH +	DRY SOIL	_	$_$	_	-	_	_	- 1						.	_		_				
WT OF MOISTU	RE			7			7					*******					-				
WT OF DISM			ΔĿ	<u>4</u> 2	- 1	44	F7	1		_				.	_		_	ł	_		
WT OF DRY SO	11	$\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$		· · ·	\perp	<u>/ </u>								1							
MOISTURE CON	TENT	\bot			<u> V</u>			$\overline{\Lambda}$													
LIQUID LIMIT																					
DETERMINATION	1	$\overline{\lambda}$	1		人		2	不	3		1		4	T		5		T		6	_
DISH		Т	#	132	Z	AL	129	T	41.1	25/			iC	W	T	no	t	de	Ŧ		_
NUMBER OF BL)WS		\overline{I}	$\overline{}$		\overline{I}	\mathcal{I}		\overline{I}								UA				_
WT OF DISM +	WET SOIL	$\prod_{i=1}^{n}$	\mathcal{L}						$\overline{\lambda}$					211	W	伙)Ur	1	-		
WT OF DISH +	DRT SOIL		X				X	7	X						1	25	<u>1</u>	Т			
WT OF MOISTUR	E		\mathcal{L}	\sum		\mathcal{I}	\mathcal{I}		\mathcal{I}	\mathcal{I}_{-}					· ·		-	1_			
WT OF DISM		ہ لـ	<u> </u>	<u>4</u> \		ZI.	4		/1.4	_/				.]			_		_		_
WT OF DRY SOI	L	$\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$			$\Lambda\Gamma$			ΔL										_			
MOJ BRUTZICH	ENT	<u></u>						Y			<u>Y</u>			1				1_			_
							0	10		20		. 1 Q L	110	L P		0		0		<u> </u>	
FLOW CUF	EVE						PL	ASTI	CITY	CHA	RT										
	;				;		!	1	- 1	1				1				C	н		
			_		_		$\overline{}$														_
						1 .					1	I		<u></u>		-	Н		1		_
	-					++		-+	\dashv	╁				ĺ	,				ш		_
					:	#								_		_	16	~	1 1		1
						1							CL			_;					_
					:	#							CL								_
					-								CL								
					-	1							CL	_	_	,					
													CL	/				6H (. 0		
						1			ØCL.	ML2//				/		, /		MH (0		
									ØCL.	ML22		Mi		OL.		,		40-1	0		
		3	0 2	25 3			360		//c L-			MI		/				40-1	0	•	
5 7	0 15) F B	LOW	25 A		40					L			01.		,		011	. 01	•	

GRADATION CURVE Site SB-46-014, Sample at 1 to 1.2 feet



Site ID	SB-46-014	Wt soil and dish	342.4
Depth	1-1.2 feet	Dry soil & dish Dish	329.7 109.2

Moisture Content = 5.8

SIEVE ANALYSIS

Dry weight of total sample= 220.5

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	59.36	73.08%	73.1	19.0
3/8 inch	98.97	55.12%	55.1	9.5
# 4	124.95	43.33%	43.3	4.8
# 10	142.14	35.54%	35.5	2.0
# 20	149.48	32.214	32.2	0.85
# 40	153.77	30.26%	30.3	0.43
# 60	158.43	28.15%	28.1	0.25
# 100	164.77	25.27%	25.3	0.15
# 200	174 72	20 76%	20 8	0.075

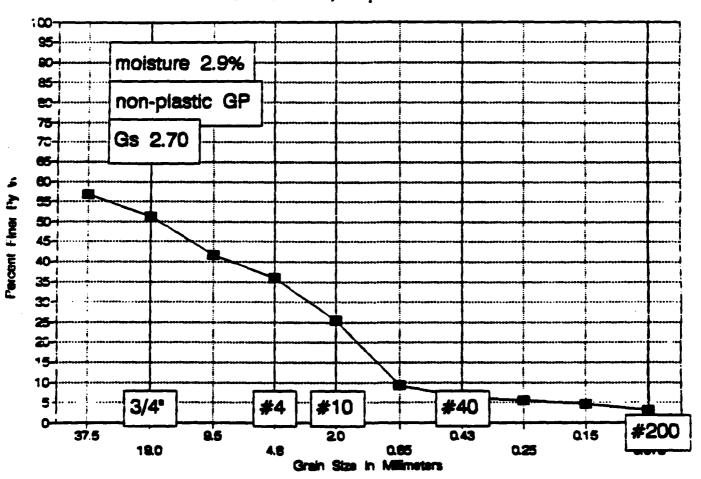
JOB NUMBER	BY	af un montso	mery
BORINGBORING	SAMPLE	014- рертн _	1-1.2'
NUMBER OF RINGS	Caa	DISH	21
WT. OF RINGS & WET SOL	0	WT. OF DISH & WET SOIL	342.4
WT. OF RINGS		WT. OF DISH & DRY SOL	329.7
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH]]09.2
DRY DENSITY	/	WT. OF DRY SOL	
•		FIELD MOISTURE CONTENT	5.6
WASH SIEVE DRY SIE	VE	WEIGHT OF OVEN DRY SOL	(orans

DISH	DISH	SEVE	WEGHT	ACCUMALATIVE	ACCUMALATI	VE PERCENT
NUMBER	WEGHT	MARKER	REDAKED	WEGHT -	RETAINED	FINER
		3*				
	·	1-1/2"		0		
•		· 3/4°		59.36 90.97 124.95		
		3/8*		90.97		
		#4		124.95		
		PAN		·		
		TOTAL				

				ACCUAL	A	CCUMULATIVE PER	CENT	
DISH NUMBER	DISH WEIGHT	SEVE	NAMER	WEIGHT RETAINED	WEIGHT	PAS	MAL	TOTAL
					RETAINED	PHER .	PAGE .	
		#10		142.14				
		#20		142.14 149.48 153.77 150.43 164.77 174.72				
		#40		153.77				
		#60		158.43				
		#100		164.77	•			
		#200		174.72				
		PAN						
		TOTAL						

FIELD DENSITY	37						_					8 -4						- ***	·
HCITAMIMA3T3Q			1			2	4	\vdash		HAT	ION				1		$oldsymbol{\perp}$		2
NUMBER OF RINGS							4	\vdash	ISH								\bot		
WT OF RINGS + V	ET SOIL						[-	ET SO					4		
WT OF RINGS				.								17 50	-	_					
WT OF WET SOIL				_			4			MO 1 S							_		
FIELD DENSITY							4			015#	-			_		_	-		_
DRY DENSITY	AN 1/8-IN	CH 7486	40 =	<u></u>				\vdash	_	DRY							+-		—
PLASTIC LIMIT									16.00	#015	TURE	CONTI	E M T					· · · · · ·	7
DETERMINATION			1	I					3			4			5		I		6
DISH		AL	_			<i>C</i> 2				_							╀		
WT OF DISH + W		***************************************	52	2_ _	10.				~					~			_		
WT OF DISH + DI	RY SOIL	80	41		0.0	25		_		- 1	_		-	_		_	1		
WT OF MOISTURE	************		л																
WT OF DISH		1	<u> </u>		14	<u>4</u>				-	_		-	_		_		_	_
WT OF DRY SOIL	_	19-	0	,	1/-	785	_	-	_	,							+-	,	_
MOISTURE CONTE	KT .	15	2	2	10	.02		Χ.	=	9									
LIQUID LIMIT																			
DETERMINATION			l l		2	2	T		3	7		4			5		Т		6
DISH		A-	2		AL	10	H	At	17	2		OX	1/1		10	21	W	γ	
NUMBER OF BLOWS		2	3_					\mathcal{I}	1				all						
WT OF DISH + WE	T SOIL	10.	35)	13.	还	<u>. </u>		<u> </u>					2	. 1	DU	ht	5	
WT OF DISH + DR	Y SOIL	<u> </u>	<u>41</u>	. 1	10	46			$\sqrt{}$.	_			_			1'		
WT OF MOISTURE						·		4									↓_		,
WT OF DISH		_4	4		1.4	4_		بلـــٰر	<u>.4</u>	-/	_		-	_		_			_
WY OF DRY SOIL		0 7	. / -	┭╄	00	(A)	+/			4							┿		
METHOD SAUTEICH	<u> </u>	27	9	<u> </u>	29	91		,		}							_ـــ		_
						0_	10		20		L 1 9	Q I U Q	L 40		0	•	0	70	<u>) </u>
FLOW CURV	E	_				PL	ST	CIT	YÇ	PAH	T		<u> </u>						
	•				1			T	T		T						C	н	
	1		Π	1	1:			一	\dashv	寸	7	1	T						7
	- ;	+	1	-	+		+	-	+	十	十	+	+		-		7	7	_
-			╂─		┼÷	╂┤	+	+	┰	+	+	+-	+-	-	 		4		
			<u> </u>		1				4	_	4_	Cr	 	 	 	_	Щ		
20	<u> </u>				:														
30 29 2 c								1		T		T							
29		1	T		1:		\neg	寸	一	7	7.		1		T		—		_
2 6 	:	-	大	} :	+	\vdash	+	\dashv	+	\rightarrow	X	1	╁	+-	╁	⊢	Н		_
27		+	\mathcal{P}		+	\vdash		# 3		1111	Z ,	ML a	OL.	├	₩	 	Щ	1	
67 I 4 I			hi	Lieu	<u>/</u>			\perp		<u>. </u>		1	<u>L</u>		1				_
24	11111		25 3		_														

GRADATION CURVE Site SB-46-015, Sample at 1 to 1.2 feet



Site ID	SB-46-015		Wt soil and dish Dry soil & dish	425.7 416.7
Depth.	1-1.2 feet		Dish	107.8
Moisture	Content =	2.9		

SIEVE ANALYSIS

Dry weight of total sample= 308.9

Sieve Size	Weight Retained	Finer	\$ Finer	Sieve opening mm
1.5 inch	133.31	56.84%	56.8	37.5
3/4 inch	150.75	51.20%	51.2	19.0
3/8 inch	180.03	41.728	41.7	9.5
# 4	197.68	36.01%	36.0	4.8
# 10	230.35	25.43%	25.4	2.0
‡ 20	280.66	9.14%	9.1	0.85
# 40	289.36	6.33%	6.3	0.43
# 60	291.95	5.49%	5.5	0.25
# 100	294.91	4.53%	4.5	0.15
# 200	299 58	3.028	3.0	0.075

34

BORING	
WT. OF RINGS & WET SOIL WT. OF DISH & WET SOIL WT. OF DISH & DRY SOIL WT. OF DISH & DRY SOIL WT. OF DISH & DRY SOIL WT. OF DISH WT. OF DISH WT. OF DISH WT. OF DISH	
WT. OF RINGS / WT. OF DISH & DRY SOL 4(6.7) WT. OF WET SOL / WT. OF MOISTURE FIELD DENSITY / WT. OF DISH	7
FIELD DENSITY WT. OF DISH]
DRY DENSITY WT. OF DRY SOL	
	J
FELD MOISTURE CONTENT 2.9]
WASH SIEVE DRY SIEVE WEIGHT OF OVEN DRY SOIL	_(grams)

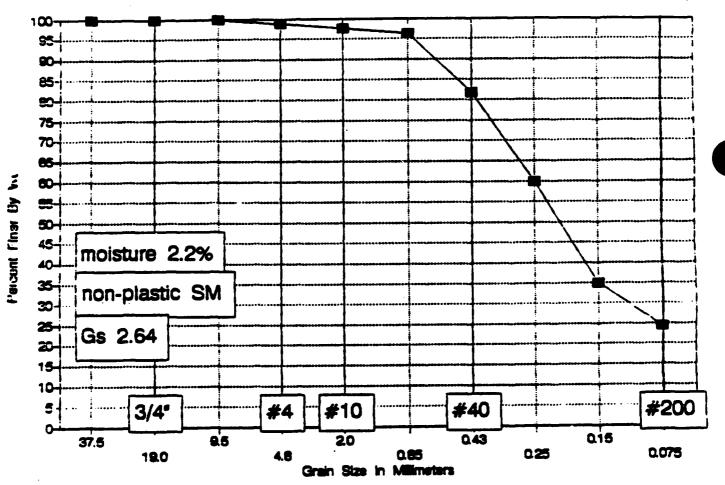
DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULAT	ME PERCENT
NUMBER	WEGHT	NAMEER	RETANED	RETANED	RETAINED	FINER
		3-		0		
	•	1-1/2*		133.31		
•		· 3/4°		150.75 180.03 197.66		
		3/8*		180.03		
		#4		197.66		
		PAN		•		
		TOTAL				

			ACCUM.		COMPLATIVE PER	CENT
OISH NUMBER	 SEVE NAMBER	WEGHT	WEGHT	PARTIAL		TOTAL
			, ,	RETAINED	PNER .	PNER
	#10		230.35			
	#20		280.66			
	#40		229.36			
	#60		20195			
	#100		29491			
	#200		230.35 280.66 289.36 291.95 294.91 299.56			
	PAN					
	TOTAL					

ATTERBERG LIMITS TEST DATA JOB NO. __ CLIENT/OWNER __ FIELD CLASSIFICATION _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ LOCATION_ LEBORATORY CLASSIFICATION ______ BORING 26-46 SAMPLE 015 DEPTH 1-1.2" FIELD DENSITY ST. DETERMINATION 2 DETERMINATION . 1 2 NUMBER OF RINGS DISH WT OF RINGS + WET SOIL WT OF DISH - WET SOIL WT OF RINGS WT OF DISH + DRY SOIL WT OF MOISTURE WT OF WET SOIL FIELD DENSITY WT OF DISH DRY DENSITY WT OF DRY SOIL THIS IS AN 1/6-INCH THREAD -FIELD MOISTURE CONTENT PLASTIC LIMIT IN UAF. 9.2592 3 DETERMINATION AL 1011 WT OF DISH + WET SOIL WT OF DISH + DRY SOIL WT OF MOISTURE WT OF DISH WT OF DRY SOIL MOISTURE CONTENT LIQUID LIMIT DETERMINATION 3 DISH NUMBER OF BLOWS coun WT OF DISH + WET SOIL WT OF DISH + DRY SOIL WT OF MOISTURE WT OF DISH WT OF DRY SOIL MOISTURE CONTENT LIQUID LIMIT 10 20 FLOW CURVE PLASTICITY CHART CH HOISTURE CONTENT CL MH & OH MCL-ML/MM LPU 25 30 15 40 NUMBER OF BLOWS SUMMARY CONTENT DRY DENSITY LIQUID LIMIT PLASTIC LIMIT DENTIFICATION INDEX

GRADATION CURVE

Site SB-BK-001, Sample at 0 to 1 feet



Site ID	SB-BK-001	Wt soil and dish	270.2
Depth	0-1 feet	Dry soil & dish Dish	266.7 110.7
Debcn	O-T TARE	DIST	110.7

Moisture Content = 2.2

SIEVE ANALYSIS

Dry weight of total sample= 156

Sieve Size	Weight Retained	Piner	\$ Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	2	98.72%	98.7	4.8
# 10	3.6	97.69%	97.7	2.0
# 20	5.6	96.41%	96.4	0.85
# 40	28.3	81.86%	81.9	0.43
# 60	62.3	60.06%	60.1	0.25
# 100	101.4	35.00%	35.0	0.15
# 200	118.1	24 291	24 3	0.075

JOB NUMBER	OWNER/CLIE	NT JM Montson	nery	
BORINGBORING	SAMPLE	001 DEPTH	0-1'	-
NUMBER OF RINGS	baar	DISH	213	
WT. OF RINGS & WET SOL	V	WT. OF DISH & WET SOIL	270.2	
WT. OF RINGS		WT. OF DISH & DRY SOL	DebJ	
WT. OF WET SOL		WT. OF MOISTURE		
FIELD DENSITY		WT. OF DISH	110.7	
DRY DENSITY		WT. OF DRY SOIL		
•		FIELD MOISTURE CONTENT	2.2	
WASH SIEVE DRY SIE	VE	_ WEIGHT OF OVEN DRY SO	L(o	rams)

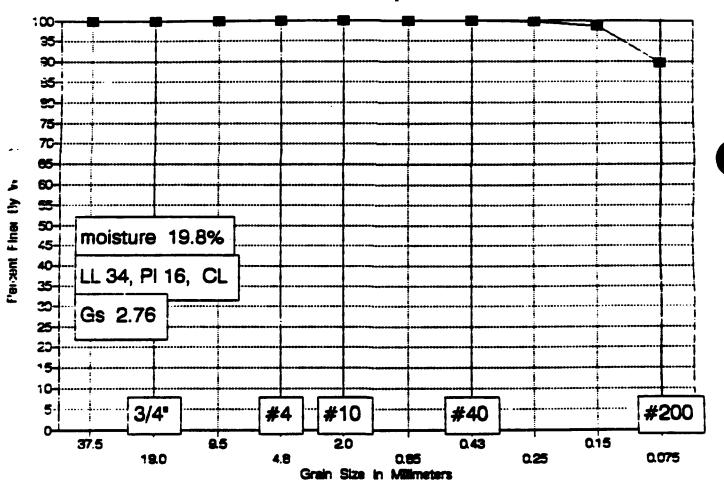
DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULATI	Æ PERCENT
NUMBER	WEGHT	NAMER	RETAINED RETAINED		RETAINED	FINER
		3*				
	·	1-1/2				
•		· 3/4°				
		3/8"		0		
		#4		2.0		
		PAN				
		TOTAL				

				1 111-1-1	A	ACCUMULATIVE PERCENT					
DISH NUMBER	DISH	SEVE NUMBER	WEIGHT		PAR	TAL	TOTAL				
				TE MED	RETAINED	PAGER	FINER				
		#10		3.6		·					
		#20		5.6							
		#40		28-3							
		#60		62.3							
		#100		101.4							
		#200		118-1							
		PAN									
		TOTAL					!				

LIQUID LIMIT PLASTIC LIMIT

DRY DENSITY .

GRADATION CURVE Site SB-BK-006, Sample at 60 feet



Site ID	SB-BK-006	Wt soil and dish	403.1
		Dry soil & dish	354.3
Depth	60 feet	Dish	108.1

Moisture Content = 19.8

SIEVE ANALYSIS

Dry weight of total sample= 246.2

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0.02	99.99%	100.0	2.0
# 20	0.05	99.98%	100.0	0.85
# 40	0.27	99.89%	99.9	0.43
# 60	0.91	99.63%	99.6	0.25
# 100	3.45	98.60%	98.6	0.15
# 200	25 37	89 705	99 7	0.075

DATE 8/20/92 JOB NUMBER - 6061	BY	JAF um monis	omery
LOCATIONBORINGGB-BK	SAMPLE	006 DEPTH _	100'
NUMBER OF RINGS	l baar	(DISH	307
WT. OF RINGS & WET SOL	J/	WT. OF DISH & WET SOIL	403.
WT. OF RINGS		WT. OF DISH & DRY SOIL	3543
WT. OF WET SOL	/	WT. OF MOISTURE	
FIELD DENSITY .	1 / .	WT. OF DISH	108.1
DRY DENSITY	/	WT. OF DRY SOL	
		FELD MOISTURE CONTENT	9.8
WASH SEVE DRY S	EVE	WEIGHT OF OVEN DRY SOL	

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULATIN	VE PERCENT
NUMBER	WEIGHT	NAMER	RETAINED	RETAINED	RETANED	FINER
		3*				
		1-1/2"				
•		· 3/4°				
		3/8"				
	·	#4		0		
		PAN		·		
		TOTAL				

				ACCUM	A	COMPLETIVE PER	ZENT
DISH NUMBER	DISH WEIGHT		SEVE WEIGHT NAMER RETAINED	WEGHT RETAKED	PARTIAL		TOPL
					RETANED	FNER	
		#10		0.02		•	
		#20		0.05			
		#40		0.27			
		#60		0.91		_	
		#100		3.45			
		#200		3:45 25:37			
		PAN					
		TOTAL					

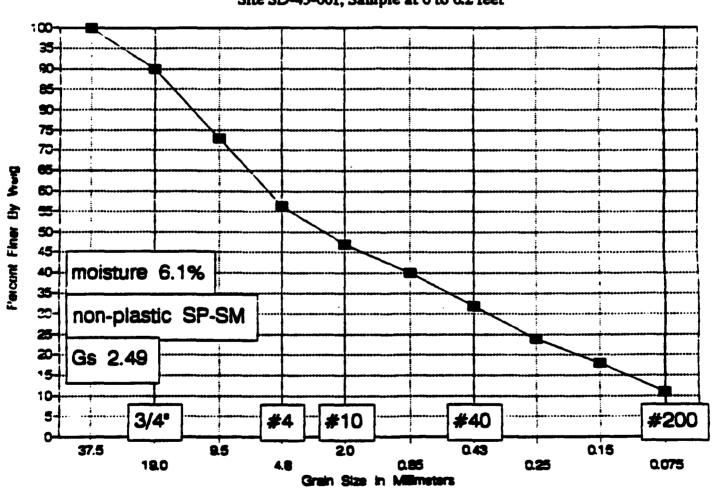
	WT OF DRY SOIL MOISTURE CONTENT		23			23		,	*	2.45	2			-	_		_			_	
	WT OF MOISTURE			4			4	-		4	_			_				+			
	WT OF DISH + WET		11.	03 23		10.		-	_	.07 45	1							+			
)	DISH NUMBER OF BLOWS		AL	35 20		AL 2	10		AL	118	7										
L	DETERMINATION					2	······································			3	Т		4	T		5					
	MOISTURE CONTENT		19.	40		18.	47	1	<u>V</u> :	=18	3				· .						
	WT OF DISH		工	4_].	4	+			+								 -		•
	WT OF DISH + WET WT OF DISH + DRY WT OF MOISTURE			20 .90		16.	任40	+			+			-							
	DETERMINATION		AL	_	1	<u>A</u> -	6	\pm		3	#					5	·	士		<u> </u>	
P	PLASTIC LIMIT IT	UP.	25	<u> 22</u>				-													
	DRY DENSITY THIS IS AN	1/8-INCH	THRE	AD -					-	OF I		URE C	ONTE	NT				+	_		_
	FIELD DENSITY				-			\dashv		OF OF		TURE		-				+			
	WT OF RINGS	3010							•1	OF	DISH	+ DR1			-			+			
	NUMBER OF RINGS WE OF RINGS + WET	5011			1			\exists	-	ISH T OF	DISM	- #61	501					1			
	HCITAMIMESTED			1	\top	- :	2		01	ETERM	MAT	104				1				2	

SEDIMENT AND SURFACE SOIL SAMPLES

SWMUs 4, 19, 20, 21, 26, 27, 28, 34, 37, 38, 42, 46

GRADATION CURVE

Site SD-45-001, Sample at 0 to 0.2 feet



Site ID	SD-45-001	Wt soil and dish	228.9
Depth	0-0.2 feet	Dry soil & dish Dish	222 109.3

Moisture Content = 6.1

SIEVE ANALYSIS

Dry weight of total sample= 112.7

Sieve Size	Weight Retained	Finer	% Finer	Sieve Opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	11.2	90.06%	90.1	19.0
3/8 inch	30.6	72.85%	72.8	9.5
# 4	49.3	56.26	56.3	4.8
# 10	59.9	46.85%	46.9	2.0
# 20	67.6	40.02%	40.0	0.85
# 40	76.8	31.85%	31.9	0.43
# 60	85.7	23.96%	24.0	0.25
# 100	92.5	17.92%	17.9	0.15
# 200	100 4	10 915	10 9	0.075

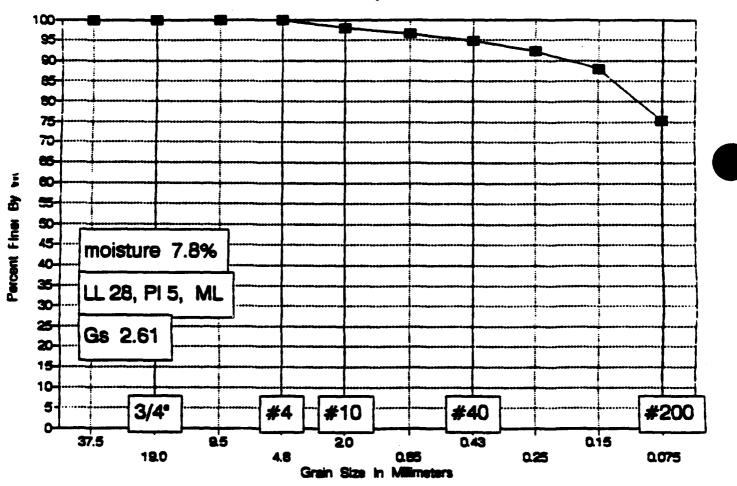
DATE 9/8/92 JOB NUMBER	BYOWNER	UCENT JM MODISON	mery
OCATION BORINGGD-45	SAMPLI	E 001 DEPTH _	0-0.2'
NUMBER OF RINGS	- Dac	DISH WT. OF DISH & WET SOL	215
WT. OF RINGS & WE WT. OF RINGS WT. OF WET SOIL	SOL	WT. OF DISH & DRY SOL WT. OF MOISTURE	223.0
FIELD DENSITY DRY DENSITY	• /	WT. OF DISH WT. OF DRY SOIL	109.3
		FIELD MOISTURE CONTENT	6.1

DISH	DISH	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULATIO	/E PERCENT
NUMBER	WEGHT	NUMBER	RETAMED	RETAINED	RETAINED	PNER
		3°				
	·	1-1/2		6		
·		· 3/4°		11,2		
		3/8*		30,6		
	-	#4		49.3		
		PAN				
		TOTAL				

				ACCUM	ACCUMULATIVE PERCENT		RCENT												
DISH NUMBER	DISH WEIGHT	SEVE NUMBER		WEIGHT	WEIGHT PARTIA	TTAL.	TOTAL												
									,									REDUNED	RETAINED
		#10		599															
		#20	•	67.6															
		#40		76.8															
		#60		85.7															
		#100		92.5															
		#200		92.5 100.4															
		PAN																	
		TOTAL																	

IELD CLASSIFICATION	TA					C T/OWNER	ک (im	rr	OF		
ABOPATORY CLASSIFICATION					LOCAT	1 ON	5 4	<u></u>		00:		
					80	RING =	1/-	DSAM	PLE _		- 059	TH S
FIELD DENSITY 11	/											
DETERMINATION	1		2	DE	TERMIN.	AT ION			1			2
NUMBER OF RINGS				DI	SH							
WT OF RINGS + WET SOIL				¥1	OF 013	SH + WE'	\$01					
WT OF RINGS				WT	OF DI	SH + DR'	501					
WT OF WET SOIL				WT	OF MO	STURE						
FIELD DENSITY				WT	OF DI	\$ H						
DRY DENSITY		<u> </u>		WT	OF DR	SOIL			<u> </u>			
THIS IS AN 1/8-IN				<u></u>	ELD MO	STURE	ONTER	T			<u>L</u>	
PLASTIC LIMIT BY WE.	91092										•	
DETERMINATION	1	λ	2 /		3		4		5		T	6
DISH	AL 02	(1.)				tar	11/	士			b	
WT OF DISH + WET SOIL	1	11	//				<u> </u>			200		
WT OF DISH + DRY SOIL		/	/		******	†		_	7)(上	0	16"
WT OF MOISTURE		17	abla			-			تنليب	<u></u> '	1	
WT OF DISH	1.4	1			***********	***************************************			1212422222		1	
WT OF DRY SOIL		1				-		ļ		_	~	
MOISTURE CONTENT		7	7					丁				
LIQUID LIMIT												
DETERMINATION		***	2 /	_	•	, 	4		5			
DISH	1000/			$\overline{}$	100	+		. h			La I	6
NUMBER OF BLOWS	NO 11	1 Von	-104-	-44	<u>icy</u>	 - C				+ 6		
WT OF DISH + WET SOIL	- \/-	 \ 	/		-/	+		A	76	201		
WT OF DISH + DRY SOIL	 X 	1	/		X -	 			175		-	
WT OF MOISTURE		 X	_	-	+	-			17.00	4	-	
WT OF DISH	14	1-/	<u>À</u>	/[4	·		_	********		 	*******
WT OF DRY SOIL	/	/	<u> </u>	سر	- \	_		j		_	-	
MOISTURE CONTENT	7			/	•							
									•			•
			0	10	20	30	4	LIHI	50	60		70
FLOW CURVE			PLAS	TICITY	CHA	RT						
; ;		: :		1 T						T	CH	
		: :		11					1			
1	- - -	+ +	╅╌┼╴	+		-	+ 1		+	+-+		4-
		- -		+			-	-	-		4	+-
		444		$\perp \perp$			CL		٠,			
1 1 1		: :			1		1 1	İ	\mathscr{X}		- 1	1
		: :						1	\top		T	
 		: :	 	 			17	\leftarrow	十	+ +	H &	
				1 (L	I		· · · · ·	- -
		+ + +									$\neg \tau$	
				WCL	- ML//	W		الم		П		
	11 1 1 1 1	- -		///CL	- ML//	77 ·		OL-				

GRADATION CURVE Site SS-01-004, Sample at 0 to 0.2 feet



Site ID	SS-01-004	Wt soil and dish	207.9
Depth	0-0.2 feet	Dry soil & dish Dish	200.8 109.9

Moisture Content = 7.8

SIEVE ANALYSIS

Dry weight of total sample= 90.9

Sieve Size	Weight Retained	Finer	% Piner	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch		100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	1.7	98.13%	98.1	2.0
20	3.2	96.48%	96.5	0.85
# 40	4.7	94.83%	94.8	0.43
# 60	7	92.30%	92.3	0.25
# 100	10.9	88.01%	88.0	0.15
# 200	22.4	75.36%	75.4	0.075

DATE 9/6/97 JOB NUMBER	BY	AF M UM Montbo	imery	
LOCATION			0 001	
BORING <u>GG-01</u>	SAMPLE	<u>004 </u>	0-0.2'	
	1			
NUMBER OF RINGS	Daa	DISH	212	
WT. OF RINGS & WET SOL	0	WT. OF DISH & WET SOL	207.9	
WT. OF RINGS		WT. OF DISH & DRY SOIL	200.8	
WT. OF WET SOL		WT. OF MOISTURE		
FIELD DENSITY		WT. OF DISH	109.9	
DRY DENSITY	/	WT. OF DRY SOIL		
		FIELD MOISTURE CONTENT	7.0	
WASH SIEVE DRY SIEV	Æ	WEIGHT OF OVEN DRY SOL	(g	rams)

DISH	DISH WEIGHT	SEVE	WEIGHT	ACCUMULATIVE WEIGHT	ACCUMULATIVE PERCENT		
NUMBER		MAGER	REDANED	RETANED	RETAINED	ANER	
		3"					
		1-1/2"					
		3/4*					
		3/8"					
		#4		0			
		PAN		·			

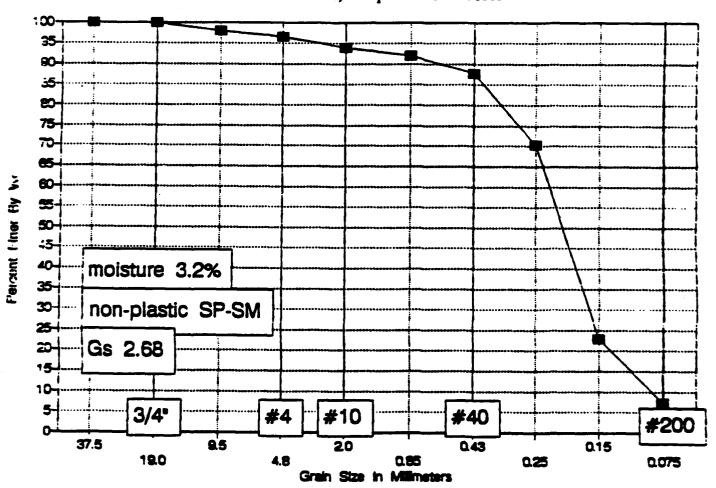
TOTAL

		SEVE NUMBER	4.1	ACCUM	A	CCUMULATIVE PE	PERCENT		
DISH NUMBER	DISH WEIGHT				PNF	MAL	TOTAL		
	<u> </u>					-Election	RETANED	PINER	PNER
		#10		1.7					
		#20		32					
		#40		4.7					
	·	#60		7,0					
		#100		10.9					
		#200 ·		22.4					
		PAN							
		TOTAL							

	BERG LIMITS TEST D	ATA			J	OB NO.				ク! マルケ				7
	U CLASSIFICATION				ď	LIENT/	OWNER)[T	111		1/2	JU	15
	PATORY CLASSIFICATION				L	OCATIO)N		11 -	MPLE .	200	•		$\overline{\alpha}$
١	IELD DENSITY					BORI	NG CS	20	<u>j</u> SA	MPLE	يمزرا	<u>-</u> 0	EPTH	ָטַ
	DETERMINATION	1	1	2	DET	ERMINAT	10N		\neg	:	1	\top	2	
	NUMBER OF RINGS	1			DIS	н			一十			\top		
	WT OF RINGS + WET SOIL				WT	OF DISH	+ WET	501				十		
	WT OF RINGS	1			WT	OF 015H	+ 081	501		*******				
	WT OF WET SOIL	┪ ──	' -		WT	OF MO15	TURE		_			1		
	FIELD DENSITY	T			WT	OF DISH)			*********		_		
	DRY DENSITY	1			WT	F DRY	501L					j		_
i	THES IS AN 1/8-1	NCH THREAD -			FIE	D MO15	TURE C	ONTE	iT.			十		_
PL	LASTIC LIMIT BY LAF	-91192				-								
	DETERMINATION	1		2	3			ŭ.			5 .	I	6	_
	DISH	ALGE	2 AL											
	WT OF DISH + WET SOIL	12.83		.04				,.,						
	WT OF DISH + DRY SOIL	0.72	. 4	90		_			.					
	WT OF MOISTURE						**********							
	WT OF DISH	. _1.4_	1 4	<u>.</u>		_	_		f					
	WT OF DRY SOIL	1 00 · ·							_			+		
1	MOISTURE CONTENT	22.64	- 1 22	2.7-1	<u> </u>	73	_							
LIG	QUID LIMIT													
	DETERMINATION	1		2	3		_	4			5		6	
1	DISM	AL 94		- 24-	_A-3							丄		
	NUMBER OF BLOWS	33		22_										
	WT OF DISH + WET SOIL	11.25		91	11.0							—		
Í	WT OF DISH + DRY SOIL	9.4	· 9	101	95	2	_		-			1.		
	WT OF MOISTURE	 ,							_					
ļ	WT OF DISH	1.4		.4	<u>اب</u>	_	_							_
1	WT OF DRY SOIL	10206	+	221	20	22 +			+			+		
ļ	MOISTURE CONTENT	27.26	79	<u> 2.01 </u>	29:	221		-				—		
				0	10	20	L I Q1	910		1 T 50		50	70	
r				1 1	1			7				T	- 	
[FLOW CURVE				TICITY	CHAR					1	П	Ĭ	4
	FLOW CURVE			 	TICITY	CHAR					\pm	C		
			+++		TICITY	CHAR					+	C		
					TICITY	CHAR								
					TICITY	CHAR								
- 1					TICITY	CHAR		CL			L. I			
- 1					TICITY	CHAR		Cr			1.1.1			
- 1					TICITY	CHAR		CL			interest			
30 29					TICITY	CHAR		l l					-	
- 1								C.L.				/	-	
29					CL-	ML*//			OL-			/	-	
ω_{\parallel}									OL-			/	-	
30 29 28 21 26	3 7 10 15 NUMBER 0	.70 25 30				ML*//))			/	-	
30 29 28 21 26	5 7 10 13	.70 25 X F \$LOWS			ZZ CL-	ML*//	2					/	-	

GRADATION CURVE

Site SS-19-006, Sample at 0 to 0.2 feet



Site ID	SS-19-006	Wt soil and dish	242.4
Depth	0-0.2 feet	Dry soil & dish Dish	238.3 110.9
20702	0 0.2 2000	•	220.7

Moisture Content = 3.2

SIEVE ANALYSIS

Dry weight of total sample= 127.4

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	٥	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	2.6	97.96%	98.0	9.5
# 4	4.5	96.47%	96.5	4.8
# 10	7.8	93.88%	93.9	2.0
# 20	10.1	92.07%	92.1	0.85
# 40	15.6	87.76%	87.8	0.43
# 60	37.8	70.33%	70.3	0.25
# 100	98.3	22.84%	22.8	0.15
# 200	118.1	7.30%	7.3	0.075

DATE 9/3/92 JOB NUMBER 10031	BY	LAF In Montgor	nery
OCATION BORING	SAMPLE	006 DEPTH _	0-0.2
NUMBER OF RINGS	bage	DISH	312
WT. OF RINGS & WET SOIL WT. OF RINGS		WT. OF DISH & WET SOIL WT. OF DISH & DRY SOIL	2383
WT. OF WET SOL		WT. OF MOISTURE WT. OF DISH	110.9
DRY DENSITY	/	WT. OF DRY SOL	
•		FIELD MOISTURE CONTENT	3.2

DISH	DISH	SEVE	WEIGHT RETAINED	ACCUMULATIVE	ACCUMULATIN	E PERCENT
NUMBER	WEIGHT	NUMBER		WEIGHT RETAINED	RETAINED	FINER
		3*				
	·	1-1/2				
•		· 3/4°		0		
	_	3/8°		2.6		
	·	#4		2.6 4.5		
	·	PAN		·		
		TOTAL				

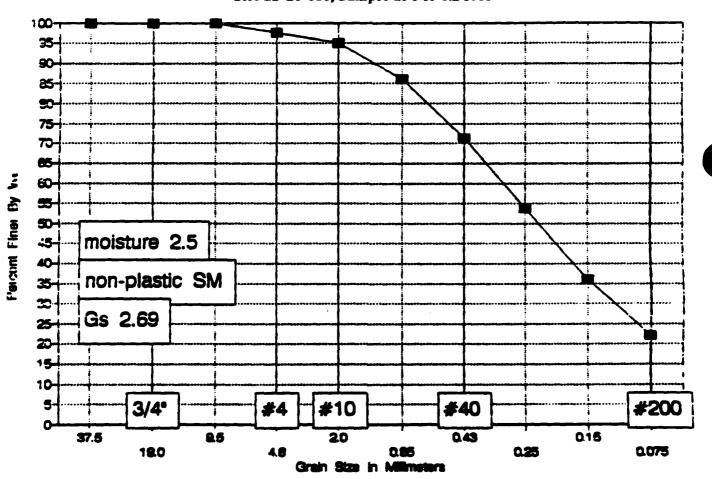
WASH SIEVE ______ DRY SIEVE _____ WEIGHT OF OVEN DRY SOIL _

				ACCUM	A	COMULATIVE PER	THE
OISH NUMBER	2		SEVE NUMBER	WEGHT	WEIGHT	PAR	TIAL
				12000	RETAINED	PNER	FINER
	·	#10		7.8	•	·	
		#20		10.1			
		#40		15.6			
		#60		37.8			
		#100		37.B 98.3			
		#200		118.1			
	·	PAN					
		TOTAL					

ERBERG LIMITS T) ((OG NO	/OWN 6	-	100 177	25		ורוי	6	717) - <u>-</u> -
ELC CLASCIFICATIO	`						10	CATI	ON		**************************************						
.90=4T0FY [L4551F]	:=T10N _									ا چور	<u>a .</u>		. (70	2 2	. 0.7	1
FIELD DENSITY	31	//		- •				901	TING 9	55 I.	7 5	ARPL	د _ر	١٠	<u> </u>	LPIN	
MCITAMIMATION		1		. 2			DETE	RM I N A	TION				1			2	
NUMBER OF RINGS							DISH								Ţ		
WT OF RINGS + W	ET SOIL			· ·		7	wT 0	FDIS	H + W	ET 501	L				T		
WT OF RINGS		 		********			WT O	F DIS	H + D	RY SOI	ī						
WT OF WET SOIL			'				WT O	F MO1	STURE	***********		-			1		
FIELD DENSITY			\neg			7 1	wt o	FDIS	H						+-		
DRY DENSITY			\dashv			7 I	WT O	PORY	SOIL	*********		_		_	1		
	AN 1/8-INCH	THREAD -	=====================================			_	FIEL	MOI	STURE	CONTE	MT				╅		
PLASTIC LIMIT						-											_
DETERMINATION		1	\mathcal{N}	2		\overline{A}	3			4	I		5	•	1	6	
DISH		ALO:	7	AL	116			CO	UU	0	nd	 	FI	12	10	a	
WT OF DISH + WE	T SOIL	\		1	1						6		d	U)	T		
WT OF DISH + DR	7 501 L			7	7	T			Ī				*********	7	T		
WT OF MOISTURE	************	$\overline{}$		$\overline{}$	$\overline{}$	'	-	_	_		•	-		_	1 '		
WT OF DISH		1/4		1.4	X		******		†	*****					 		
WT OF DRY SOIL		7-	$\mathbf{M}_{\mathbf{A}}$	/ 	_	•			-		•	_		_	1 '		
MOISTURE CONTEN	T /	/	$\forall \forall$			4									+		
LIQUID LIMIT						<u></u>	_		_							-	
CIGOID FIMIL																	
DETERMINATION	\	1	4	2		4.	3			*			5			6	
DISH		ALIC		18	<u>721</u>	نل	<u>9</u> A				<u>OU</u>	14	2	<u>n</u>	<u>}</u>	6	<u> </u>
NUMBER OF BLOWS		$\frac{1}{1}$		\	\mathcal{L}							<u>a</u>	01	2	la	te.	,
WT OF DISH + WE	T SOIL	ΔL		\bot			λZ					10	<u> UU</u>	<u> </u>	YDU	m	_
WT OF DISH + DR	Y SOIL	Δ	1	\underline{V}		1 -	_X_						(ZE	】).		
WT OF MOISTURE		Δ		Δ			Δ										
WT OF DISH		1.4		Δ.	4_		1.4	7									
WT OF DRY SOIL		$\overline{}$	$\perp \! \! \! \! \! \perp \! \! \! \! \! \! \! \! \! \! \! \! \!$		\mathcal{I}	$\perp L$		\sum							1`		
MOISTURE CONTEN	, /		$ \Box $					7									
										Q 1 U Q			_	_	_	_	
FLOW CURV	E				PLA	STIC	ITY (CHA	NT RT	T		,			<u>, </u>	7	1
		1-1-				\dashv	1	\Box	\dashv	\top	T				CH	. †	7
 		╂╼╌╂╼╌┤	1			\dashv	+-	$\vdash \vdash$	\dashv	+	\vdash	\vdash	\vdash		-	+	H
	•					\dashv				4	<u> </u>					4	\rightrightarrows
					1 1	- 1	1		_			L			X		
						1					1 -	1					
				2		+	1		İ	CL	.	1	١,	-			
			-	+		#			+	CL	-	-			\dashv	\neg	
			-						_	Cr			Ż		\dashv	丁	\Box
			-	: :						CL							
				:					+	CL					W1 &	OH	
										CI	/				W1 &	OH	
							CL·A	_		CL ML &	OL-				M &	OH	
							EL-A								M &	OH	
5 7 10	111111111111111111111111111111111111111	.70 25 27			•		EL-A	_							NH &	OH	
5 7 10	111111111111111111111111111111111111111				•		CL-N	_							M4 &	OH	
5 7 10 NUI	111111111111111111111111111111111111111	.70 25 27					7143	_			01.	<u></u>			MH &	OH	

GRADATION CURVE

Site SS-20-016, Sample at 0 to 0.2 feet



Site ID	SS-20-016	Wt soil and dish	267.3
		Dry soil & dish	263.5
Depth	0-0.2 feet	Dish	113

Moisture Content = 2.5

SIEVE ANALYSIS

Dry weight of total sample= 150.5

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	3.52	97.66%	97.7	4.8
# 10	7.37	95.10%	95.1	2.0
# 20	21	86.05%	86.0	0.85
# 40	43.02	71.42%	71.4	0.43
# 60	69.47	53.84%	53.8	0.25
# 100	96.38	35.96%	36.0	0.15
\$ 200	117.33	22.048	22.0	0.075

OB NUMBEROCATION	BY OWNER/CL	ENT UM MONTANA	rev
ORING <u>59-20</u>	SAMPLE _	Olb DEPTH _	0-0.2'
NUMBER OF RINGS	Max	DISH	301
WT. OF RINGS & WET SOL. WT. OF RINGS	J	WT. OF DISH & WET SOIL WT. OF DISH & DRY SOIL	267.3 263.5
WT. OF WET SOIL FIELD DENSITY		WT. OF DISH	0.8[[[[
DRY DENSITY		WT. OF DRY SOIL FIELD MOISTURE CONTENT	25

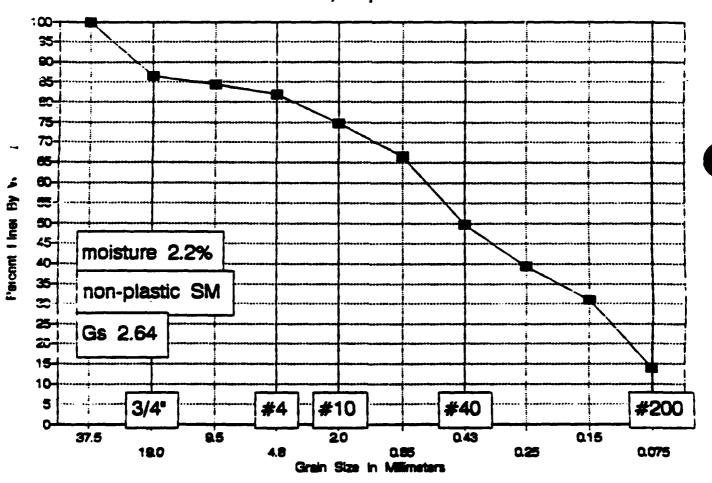
DISH	DISH	SEVE	WEIGHT	ACCUMALATIVE WEIGHT	ACCUMULATIVE PERCENT					
NAMBER	WEGHT	MAKER	RETAINED	RETANED	RETANED	PNER				
		3*								
	·	1-1/2								
•		· 3/4°								
		3/8"		0						
		. #4		3.52						
		PAN		·						
:		TOTAL								

			1	ACCUM	A	CENT						
DISH NUMBER	DISH WEIGHT	MARGER	SEVE NAMER	MAGER	MAGER	MAGER	MAGER	WEIGHT	WEIGHT RETAKED	PAG.	TRAL.	TOBAL
					RETWED	ner.	PHER					
		#10		7.37		•						
		#20		2100								
		#40		43.02								
		#60		69.47								
		#100		43.02 69.47 96.38 117:33								
		#200		117:33								
		PAN										
		TOTAL				•						

LERBERG LIMITS TEST DA	T A			J	06 43)	 {	20 m		<u> </u>	4	<u>. سر ، </u>	7 :	(2)	
FREED CLASCRETCATION															•
15091TOFY CL1551F1C1T104					20		يم يرتوز	70.		- 1	<u></u>	~ ,		. 0	- / 7
FIELD DENSITY ST					80	RING-	22.5	د پیز	AMPL	. E _\	د: پ	·) E P ()	* <u>U</u>	_ ~
DETERMINATION	1	2		0616	RMIN	ATION				1		Т		2	
NUMBER OF RINGS				015)										
WT OF RINGS + WET SOIL			7	WT :	F 015	H -	WET SO	1 L							
WT OF RINGS		-		WT C	F D13	H +	DRY SO	16							
WT OF WET SOIL			ı	WT (F MO	STUR		*******	_				_		-
FIELD DENSITY			┥.	WT C	F DI	. H					*****				
DRY DENSITY		 	┪	WT 0	F DRY	501	 L	******	-				_	_	-
THIS IS AN 1/8-IN	CM THREAD -	<u> </u>	_				E CONT	FMT				╅			_
PLASTIC LIMIT & U.F.															
DETERMINATION	1	2		3			ħ			5	,	T		6	
DISH	15	ALIZI				di	Hil	JL#	- +	0 -	+V	ME	a	1	
WT OF DISH + WET SOIL	16.21	473				1				11					
WT OF DISH + DRY SOIL	13.66	12.46	1			<u> </u>	**********			7		T	-		
WT OF MOISTURE	كنكليفيسيد					-		-	_						-
WT OF DISH	1.4	1.4_		******	********	1	*******		******			7			
WT OF DRY SOIL			-		_	-		-	-				_		-
MOISTURE CONTENT	20.80	20.52	┪ -	∇ = 2	71	1						十			
LIQUID LIMIT	75.00	1. 1. 1. 1.		<u></u>	-1							•			
DETERMINATION	\ 1	2	人	3	<i>'</i>	l	4			5		T		6	
DISM	AU1721	4-7/	7	ace	3		U	\mathcal{M}	オ	n	犴	10	妦	_	
NUMBER OF BLOWS	1	1	+	1	\overline{I}	1		_		加	7-	H.			_
WT OF DISH + WET SOIL		1	1	`\ /	i	1	1	77) (7	n	1	7	•	
WT OF DISH + DRY SOIL	1/	X	_	$\overrightarrow{\nabla}$		1-		2121	Ť	75	7	4			
WT OF MOISTURE	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 	 		-/ \		-		-	_		+		_		-
WT OF DISH	14	14	+-	11.4		+						+			
WT OF DRY SOLL	-1.11\	/161- `	V.	/	7	-		-	-	-	_		_		-
MOISTURE CONTENT		,	\forall			+-				_		+			•
40.0.000					`	, ,	10011		417						
FLOW CURVE	 		10		20 C N A	30		*		<u> </u>	, (50	7	ro I	_
		· · PLA	- 	- 	CHA 	~-	-	+	├-	├	├	⊬	<u> </u>	-	\vdash
					$oxed{oxed}$	ot		1	<u> </u>			Le	H		4
													۱ ا		
			T			一	$\neg \vdash$	1							
		: : - 	+			\vdash		+	┢	-		1	╁	╁	\vdash
	\bot		\dashv		-	 	C	4		 	~	↓_	 	<u> </u>	-
										1					
									1						
		† † - 	\dashv	_		$\vdash \vdash$	+	*	T	t	1	MIH			1
		: : - 	\dashv	-	-	$\vdash \vdash$	X	+-	₩	 	 	+	- 3		-
		: : !		ZCL.	AL//		- 1 - 1	l DL							
	, , , , , , , , ,				10										Γ
5 7 10 15 NUMBER OF	.70 25 30	40 50		•			-		•			•	•		
SUMMARY			_												
399751CB 7712830 780	LJOUIS LIE	IT PLASTIC		PLA	13175 1390	77	OCHT I	FICAT	100						

٠.

GRADATION CURVE Site SS-21-001, Sample at 0 to 0.2 feet



Site ID	ss-21-001	Wt soil and dish	277.6
Depth	0-0.2 feet	Dry soil & dish Dish	274.1 112.1

Moisture Content = 2.2

SIEVE ANALYSIS

Dry weight of total sample= 162

Sieve Size	Weight Retained	Piner	\$ Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	21.9	86.48%	86.5	19.0
3/8 inch	25.1	84.51%	84.5	9.5
# 4	29.2	81.98%	82.0	4.8
# 10	40.9	74.75%	74.8	2.0
# 20	54.4	66.42%	66.4	0.85
# 40	81.4	49.75%	49.8	0.43
# 60	98.3	39.32%	39.3	0.25
# 100	112.1	30.80%	30.8	0.15
# 200	139 A	13 959	14.0	0.075

SA-

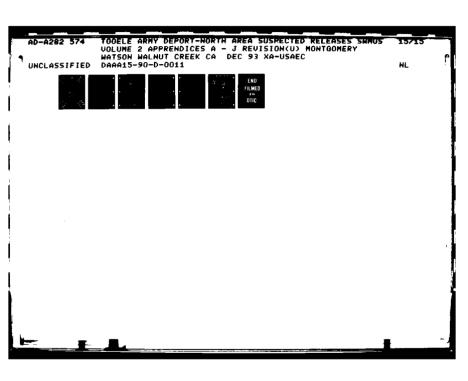
MECHANICAL ANALYSIS

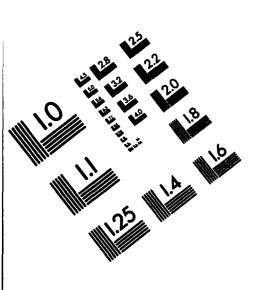
DATE <u>9/4/97</u> JOB NUMBER <u>- 6081</u>	BY	ENT_JM MONTGON	mery
BORING	SAMPLE	001 DEPTH _	0-0.2'
NUMBER OF RINGS	Maax /	DISH	303
WT. OF RINGS & WET SOIL	0/	WT. OF DISH & WET SOIL	2776
WT. OF RINGS		WT. OF DISH & DRY SOL	274.1
WT. OF WET SOL		WT. OF MOISTURE	
FIELD DENSITY		WT. OF DISH	1.112.1
DRY DENSITY	/	WT. OF DRY SOL	
•		FELD MOISTURE CONTENT	2.2
WASH SIEVE NOV SE	ave .	WEIGHT OF OVEN DRY SOL	· (come)

DISH	DISH	SEVE	WEIGHT	ACCUMILATIVE	ACCUMULATION	Æ PERCENT
NUMBER	WEIGHT	NAMER	RETAINED	WEIGHT RETAINED	RETAINED	FINER
		3"				
	·	1-1/2				
•		· 3/4°		21.9		
		3/8*		25.1		
	·	#4		29.2		
		PAN		·		
		TOTAL				

						CUMULATIVE PER	ENT
DISH NUMBER	DISH	SEVE NUMBER	RETAINED	WEIGHT WEIGHT	RAS	TIAL	TOTAL
			RETAINED	RETANCED	FNER	FNER	
		#10		40.9		·	
		#20		54.4			
		#40		81.4			
		#60		98.3			
		#100		112.1			
		#200		139.4	•		
-							
		PAN					
		TOTAL					

ELD CLASSIFICATION			OWNER _									
BOPATORY CLASSIFICATION	PATOFY TLASSIFICATION					N G	<u>25</u>	SAMPL	.E _C	<u>ض20</u>	DEPT	'H _{
FIELD DENSITY BY	_ /											
NC ! TAN ! WR3T3Q	1			DETE	RMINAT	ON		T	1			2
NUMBER OF RINGS				DISH				+-				
WT OF RINGS + WET SOIL				WT 3	F DISH	+ WET	501 L	†		_		
WT OF RINGS				WT O	F DISH	+ DRY	SOIL	†				
WT OF WET SOIL	 			WT O	F MO151	URE		-		-	_	
FIELD DENSITY					F DISH			1	********			
DRY DENSITY		+			F DRY	01 L		-		-	-	
THIS IS AN 1/8-1	INCH THREAD -					URE CO	MTEMT	+		-+		
PLASTIC LIMIT BY WE								ا ـــــ				
PLASTIC LIMIT BY USE												
DETERMINATION	1 /	2		3		4			5.			6
DISH	A-4/	AU	34	C	QUIL	1 r	10+	LH	121	21		
WT OF DISH + WET SOIL		T.Z										
WT OF DISH + DRY SOIL	<u> </u>				_ T					_ 1		
WT OF MOISTURE		17	$\sum \bot$									
WT OF DISH	1.4-	1	4							_ 7		
WT OF ORY SOIL			$=$ \setminus $\!$									
MOISTURE CONTENT	/	\sqrt{I}										
LIQUID LIMIT							•					
257524444	Λ .	A -		3		4		1	5	ī		6
DETERMINATION	1 1	$\sqrt{\frac{1}{\lambda^2}}$		\	-/ 			 		- +	$\overline{\mathbf{L}}$	<u>-</u> -
NUMBER OF BLOWS	PL 29	5 \A-	9/1	7611	-/- 		<u>XVV</u>	_		10		
WT OF DISH + WET SOIL	+ \ /	- \-	-/- 		/ 		<u> </u>			OUY		
WT OF DISH + DRY SOIL	 \/- -		/	/-/			KA	pu	176	SUL	ш_	
WT OF MOISTURE	 -X-	- 	\leftarrow 1	-X	-			-		וע	_	
WT OF DISH	1.4	/-	, \ 	1.4	\			 				
WT OF DRY SOIL	1 /1.7	1 1	<u></u> \	4.4	1 /=			-	-	-	_	
THE THE CONTENT	 / 	\/ 	/	/	$\overline{}$			-		-+	_	
asistone conten.	I/	Ψ/	L		XI_			<u> </u>				
			_			LIQU				•		_
FLOW CURVE		: 1:		ICITY	O CHAR	<u>.70</u>		T -	10 		T	<u> </u>
PLOW CORVE				 	 	+-+		+-	\vdash		+-	+-
		<u> </u>				\bot		$oldsymbol{ol}}}}}}}}}}}}}}}}}$	$\sqcup \bot$		H	<u> </u>
												1
		: :									X	
 	- 			 - -	 	++	_	+	┼;		+-	╁
				 		+	CL	+-	1	\leftarrow	+	┼
		: :						\perp				
								1	\Box			
		+ + +		 		++	\nearrow		1 1	 	• 0	+
		- ; ; -		┼-┼-	\vdash	 	+	+	++	-	-	1
			1 I	77.5	41 ///	7 !		1	1 1	1	1	1
1	\bot			MCL-I			S OI		++			+
				CL-I			a Ot					

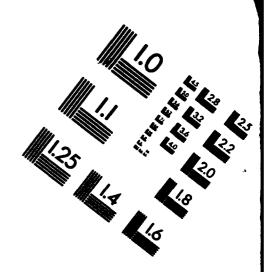




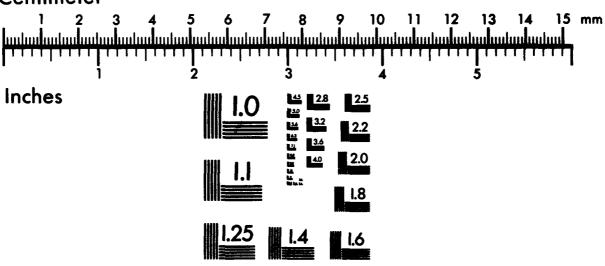


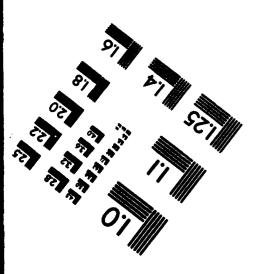
Association for Information and Image Managemen

1100 Wayne Avenue, Suite 1100 Silver Spring, Maryland 20910 301/587-8202

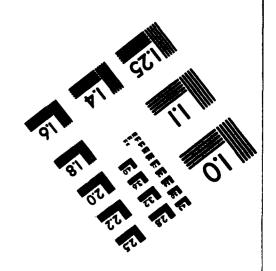


Centimeter

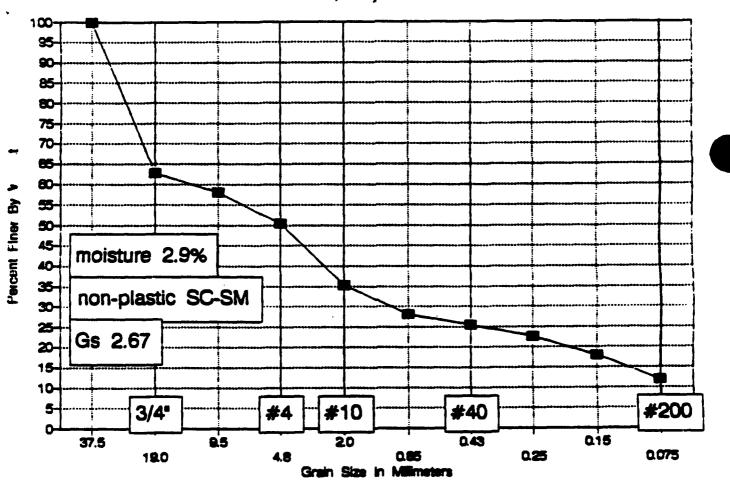




MANUFACTURED TO AIIM STANDARDS
BY APPLIED IMAGE, INC.

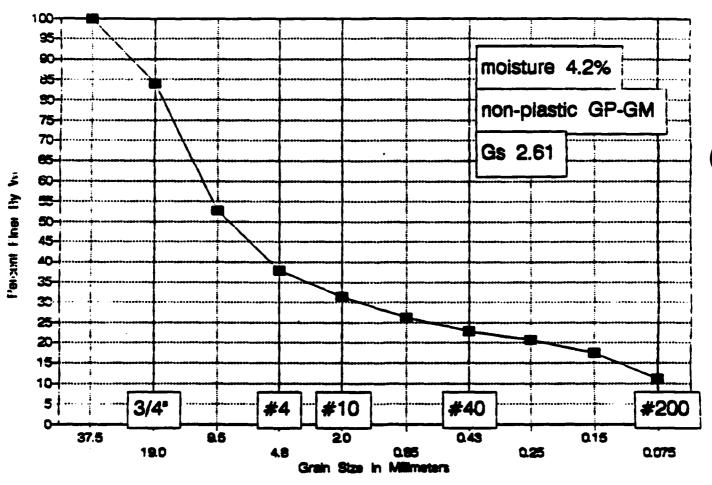


GRADATION CURVE Site SS-26-034, Sample at 0 to 0.2 feet



ELL CLADEFFICATION			LOCATION	– 60 WNER _ UK			
GOPATORY CLASSIFICATION			ROPIN	6/2-21:	AMPLE O	OI DEPT	, 0
FIELD DENSITY 31	/ / :		35	<i>-</i> 22		Z (_ 00	
							
DETERMINATION	1	2	DETERMINATIO) N	1		2
NUMBER OF RINGS			DISH	-62 6614	 		
WT OF RINGS + WET SOLE			WT OF DISH				
WT OF RINGS			WT OF DISH			- -	
WT OF WET SOIL		 	WT OF MOIST		ļ		
FIELD DENSITY		 	WT OF DISH			- —	
DRY DENSITY	1868 ZM8540	<u></u>	WT OF DRY SC			 -	 -
THIS IS AN 1/8-	_		FIELD MOISTU	ME CONTENT	L		
PLASTIC LIMIT BY	1.000						
DETERMINATION	1	2	, 3	4	5.		6
DISH	A-4/	AL94	Wi	old no	IT th	RADO	
WT OF DISH + WET SOIL	1 \ /			(4)			
WT OF DISH + DRY SOIL							
WT OF MOISTURE							
WT OF DISH	1.4	1 1.4					
WT OF DRY SOIL		<i> </i>					
MOISTURE CONTENT	/	1/	V				
LIQUID LIMIT							
	TA	1/					
DETERMINATION	1 1	2	3 /	/ 1	5	21/20	<u>. </u>
DISH	HALOS/	1 X-B	1611		va n	0-100	1
WT OF DISH + WET SOIL	+ \ /	 \ /	 		la su	COUR	工
WT OF DISH + DRY SOIL	 	 \/ -	 				
W1 07 013h + 041 301C	-X-	1 - X	- X 		(2	<i>?</i> / —	
WT OF MOISTURE		14	1.4		<u> </u>		
WT OF MOISTURE						• -	
WT OF DISH	1.4	 	1 4.3			_ 1	
WT OF DISH WT OF DRY SOIL	1.4	1	4.5				
WT OF DISH	1.4		1.1				
WT OF DISH WT OF DRY SOIL	1.4	7		LIQUID LI		-	<u> </u>
WT OF DISH WT OF DRY SOIL MOISTURE CONTENT	1.4	7	10 20	30 40	H i T 50	60 7	PO
WT OF DISH WT OF DRY SOIL	1.4	7		30 40			- -
WT OF DISH WT OF DRY SOIL WOISTURE CONTENT	1.4		10 20	30 40		60 7 CH	, ,
WT OF DISH WT OF DRY SOIL MOISTURE CONTENT	1.4	- PLA	10 20	30 40			
WT OF DISH WT OF DRY SOIL MOISTURE CONTENT	1.4		10 20	30 40			
WT OF DISH WT OF DRY SOIL MOISTURE CONTENT FLOW CURVE		PLA	10 20	30 40	30	СН	80
WT OF DISH WT OF DRY SOIL WOISTURE CONTENT	1.4	PLA	10 20	30 40		СН	No.
WT OF DISH WT OF DRY SOIL MOISTURE CONTENT FLOW CURVE	1.4	PLA	10 20	30 40	30	СН	
WT OF DISH WT OF DRY SOIL WOISTURE CONTENT	1.4	PLA	10 20	30 40	30	СН	
WT OF DISH WT OF DRY SOIL WOISTURE CONTENT	1.4	PLA	10 20	30 40	30	СН	
WT OF DISH WT OF DRY SOIL WOISTURE CONTENT		PLA	10 20 BTICITY CHART	CL CL	30	СН	
WT OF DISH WT OF DRY SOIL WOISTURE CONTENT		PLA	STICITY CHART	CL CL	50	СН	
WT OF DISH WT OF DRY SOIL WOISTURE CONTENT		PLA	10 20 BTICITY CHART	SC 40	50	СН	

GRADATION CURVE Site SS-26-026, Sample at 0 to 0.2 feet



Site ID	SS-26-026	Wt soil and dish	322.4 313.9
Depth	0-0.2 feet	Dry soil & dish Dish -	109.6

Moisture Content = 4.2

SIEVE ANALYSIS

Dry weight of total sample= 204.3

Sieve Size	Weight Retained	Finer	% Finer	Sieve opening mm
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	32.64	84.02%	84.0	19.0
3/8 inch	96.77	52.63%	52.6	9.5
‡ 4	126.9	37.89%	37.9	4.8
# 10	140.22	31.37%	31.4	2.0
# 20	150.72	26.23%	26.2	0.85
# 40	157.78	22.77%	22.8	0.43
# 60	162.22	20.60%	20.6	0.25
# 100	168.75	17.40%	17.4	0.15
\$ 200	181.81	11.01	11.0	0.075

DATE <u>9/4/97</u> JOB NUMBER <u>- 1006</u> LOCATION	BY	af JMMontzon	nery	_
BORING	_ SAMPLE	026 DEPTH _	0-02	
NUMBER OF RINGS	Tracy	DISH	206]
WT. OF RINGS & WET SOL	10/	WT. OF DISH & WET SOIL	2224	
WT. OF RINGS		WT, OF DISH & C	313.9	
WT. OF WET SOL		WT. OF MOISTLE		ĺ
FIELD DENSITY	17	WT. OF DISH	109.6	ŀ
DRY DENSITY		WT. OF DRY SOL		
		FELD MOISTURE CONTENT	4.2	
WASH SIEVE DRY S	EVE	WEIGHT OF OVEN DRY SOL	•	, (~~~~\

DISH	DISH	SEVE	WEIGHT	ACCUMILATIVE	ACCUMULATE	E PERCENT
NUMBER	WEIGHT	N.MBER	REDANED	WEGHT RETANED	RETANED	FNER
•		3"				
	·	1-1/2		0		
•		· 3/4°		32.64		
		3/8"		96.77		
	·	#4		32.64 96.77 126.90		
		PAN		·		
		TOTAL				

						CCUMULATIVE PER	CENT
DISH MJMBER	DISH WEIGHT	1	WEGHT	WESHT	m	MAL.	TOTAL
					RETAINED	PAGE .	rhen.
		#10		14022			
		#20		150.72 157.78			
		#40		157.78			
		#60		162.22			
		#100		16875			
		#200		162.22 168.75 161.61			
					·		
		PAN					
· · · · · · · · · · · · · · · · · · ·		TOTAL				•	

FILMED

DATE:

8-94

DTIC